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- Abh. hessisch. geol. Landesanst.* Abhandlungen der grossherzoglich hessischen geologischen Landesanstalt. Darmstadt.
- Abh. k.-bayer. Akad. Wissensch.* Abhandlungen der königlich-bayerischen Akademie der Wissenschaften. Munich.
- Abh. k.-k. geogr. Gesellsch. Wien.* Abhandlungen der kaiserlich-königlich geographischen Gesellschaft. Vienna.
- Abh. k.-preuss. geol. Landesanst.* Abhandlungen der königlich-preussischen geologischen Landesanstalt. Berlin.
- Abh. naturh. Gesellsch. Nürnberg.* Abhandlungen der naturhistorischen Gesellschaft. Nürnberg.
- Abh. schw. paläont. Gesellsch.* See *Mém. Soc. paléont. suisse.*
- Abh. senckenb. naturf. Gesellsch.* Abhandlungen herausgegeben von der senckenbergischen naturforschenden Gesellschaft. Frankfurt-on-the-Main.
- Abstr. Proc. G. S.* Abstracts of the Proceedings of the Geological Society. London.
- Abstr. Proc. Inst. Mining & Metall.* Abstracts of the Proceedings of the Institution of Mining and Metallurgy. London.
- Actes Soc. Linn. Bordeaux.* Actes de la Société Linnéenne de Bordeaux. Bordeaux.
- Actes Soc. sci. Chili.* Actes de la Société scientifique du Chili. Santiago de Chile.
- Am. Geol.* American Geologist. Minneapolis (Minn.).
- Am. Journ. Sci.* American Journal of Science. New Haven (Conn.).
- Analyst.* Analyst (Society of Public Analysts). London.
- An. Mus. La Plata.* Anales del Museo de la Plata. La Plata.
- An. Mus. Nac. Buenos Aires.* Anales del Museo Nacional de Buenos Aires. Buenos Aires.
- An. Soc. cient. Argent.* Anales de la Sociedad científica Argentina. Buenos Aires.
- Ann. Acad. Roy. Belg.* Annuaire de l'Académie Royale des Sciences, des Lettres et des Beaux-Arts de Belgique. Brussels.
- Ann. Géol. et Paléont. Palerme.* Annales de Géologie et de Paléontologie. Palermo.
- Ann. k.-k. naturhist. Hofmus. Wien.* Annalen des kaiserlich-königlichen naturhistorischen Hofmuseums. Vienna.
- Ann. Mag. Nat. Hist.* Annals and Magazine of Natural History. London.
- Ann. Mines, Paris.* Annales des Mines. Paris.
- Ann. N.Y. Acad. Sci.* Annals of the New York Academy of Sciences. New York.
- Ann. Observ. Nat. Athènes.* Annales de l'Observatoire National d'Athènes. Athens.
- Ann. R. Univ. Pisa.* Annuario della Reale Università di Pisa. Pisa.
- Ann. Rep. Am. Mus. Nat. Hist. N.Y.* Annual Report of the American Museum of Natural History. New York.
- Ann. Rep. Dep. Geol. Indiana.* Annual Report of the Department of Geology and Natural Resources of Indiana. Indianapolis (Ind.).
- Ann. Rep. Dep. Mines, N.S.W.* Annual Report of the Department of Mines and Agriculture, New South Wales. Sydney.

- Ann. Rep. Dep. Mines Queensl.* Annual Report of the Under Secretary for Mines, Queensland. Brisbane.
- Ann. Rep. Geol. Surv. Canada.* Annual Report of the Geological Survey of Canada. Ottawa. See *Summ. Rep.*
- Ann. Rep. Geol. Surv. Queensl.* Annual Progress Report of the Geological Survey of Queensland. Brisbane.
- Ann. Rep. Geol. Surv. W. Austr.* Annual Progress Report of the Geological Survey. Perth (W. Austr.).
- Ann. Rep. Mus. Comp. Zool.* Annual Report of the Assistant in Charge of the Museum of Comparative Zoology at Harvard College. Cambridge (Mass.).
- Ann. Rep. Nat. Hist. Surv. Minn.* Annual Report of the Geological and Natural History Survey of Minnesota. Minneapolis (Minn.).
- Ann. Rep. Smiths. Inst. Rep. U.S. Nat. Mus.* Annual Report of the Board of Regents of the Smithsonian Institution. Report of the United States National Museum. Washington (D.C.).
- Ann. Rep. U.S. Dep. Agric.* Annual Report of the United States Department of Agriculture. Washington (D.C.).
- Ann. Rep. U.S. Geol. Surv.* Annual Report of the United States Geological Survey. Washington (D.C.).
- Ann. Rep. Wellington Coll. Nat. Sci. Soc.* Annual Report of the Wellington College Natural Science Society. Wellington College.
- Ann. Rep. Yorks. Phil. Soc.* Annual Report of the Yorkshire Philosophical Society. York.
- Ann. Sci. nat. (Zool. & Paléont.).* Annales des Sciences naturelles: Zoologie et Paléontologie. Paris.
- Ann. Sci. Univ. Jassy.* Annales scientifiques de l'Université de Jassy. Jassy (Rumania).
- Ann. Soc. géol. Belg. Liège.* Annales de la Société géologique de Belgique. Liège.
- Ann. Soc. géol. Nord.* Annales de la Société géologique du Nord. Lille.
- Ann. Soc. R. malac. Belg.* Annales de la Société Royale malacologique de Belgique. Brussels.
- Ann. Univ. toscane.* Annali delle Università toscane. Pisa.
- Anthropologie.* L'Anthropologie. Paris.
- Appalachia.* Appalachia. Boston.
- Arch. f. Anthr. & Geol. Schleswig-Holsteins.* Archiv für Anthropologie und Geologie Schleswig-Holsteins und der benachbarten Gebiete. Kiel.
- Arch. naturw. Landesd. Böhmen.* Archiv der naturwissenschaftlichen Landesdurchforschung von Böhmen. Prague.
- Arch. néerland. Sci.* Archives des Sciences exactes et naturelles, publiées par la Société hollandaise des Sciences à Harlem. The Hague.
- Arch. Sci. phys. et nat. Genève.* Archives des Sciences physiques et naturelles. Geneva.
- Athenæum.* Athenæum Journal. London.
- Atti R. Acc. Lincei, Rendic.* Atti della Reale Accademia dei Lincei, Rendiconti. Rome.
- Atti R. Acc. Sci. Padova.* Atti e Memorie della Reale Accademia di Scienze, Lettere ed Arti in Padova. Padua.
- Atti R. Acc. Sci. Torino.* Atti della Reale Accademia delle Scienze di Torino. Turin.
- Atti R. Univ. Genova.* Atti della Reale Università di Genova. Genoa.
- Atti Soc. tosc. Sci. nat.* Atti della Società toscana di Scienze naturali. Pisa.
- Augustana Library Publ.* Augustana Library Publications. Rock Island (Ill.).
- Beitr. geol. Schweiz.* Beiträge zur Geologie der Schweiz. (Schweizerische geotechnische Kommission.) Bern.
- Beitr. Geophys. Leipzig.* Beiträge zur Geophysik. Leipzig.
- Beitr. Paläont. Oesterr.-Ung.* Beiträge zur Paläontologie und Geologie Oesterreich-Ungarns und des Orients. Vienna.
- Ber. k.-sächs. Gesellsch. Wissensch. Leipzig.* Bericht der königlich-sächsischen Gesellschaft der Wissenschaften. Leipzig.
- Ber. naturf. Gesellsch., Freiburg i. B.* Berichte der naturforschenden Gesellschaft. Freiburg i. B.
- Ber. oberhess. Gesellsch. Nat.-Heilk.* Bericht der oberhessischen Gesellschaft für Natur- und Heilkunde. Giessen.
- Ber. oberrhein. geol. Ver. Marburg.* Bericht über die 32te Versammlung des oberrheinischen geologischen Vereins in Marburg. Stuttgart.
- Ber. senckenb. naturf. Gesellsch.* Bericht der senckenbergischen naturforschenden Gesellschaft. Frankfurt-on-the-Main.

- Berg-hütt. Jahrb. Wien.* Berg- und hüttenmännisches Jahrbuch der kaiserlich-königlichen Bergakademien zu Leoben und Příbram und der königlich-ungarischen Bergakademie zu Schemnitz. Vienna.
- Bihang k. svenska Vet.-Akad. Handl.* Bihang till kongliga svenska Vetenskaps-Akademien Handlingar. Stockholm.
- Bol. Acad. Nac. Cordoba.* Boletín de la Academia Nacional de Ciencias en Córdoba. Buenos Aires.
- Bol. Com. Mapa geol. España.* Boletín de la Comisión del Mapa geológico de España. Madrid.
- Bol. Inst. geogr. Argent.* Boletín del Instituto geográfico Argentino. Buenos Aires.
- Bol. Inst. geol. México.* Boletín del Instituto geológico de México. Mexico.
- Bol. Soc. geogr. Lima.* Boletín de la Sociedad geográfica de Lima. Lima.
- Bol. Soc. Geogr. Lisboa.* Boletim da Sociedade de Geographia de Lisboa. Lisbon.
- Bol. Soc. Nac. Minería, Santiago.* Boletín de la Sociedad Nacional de Minería. Santiago de Chile.
- Boll. R. Com. geol. Ital.* Bollettino del Reale Comitato geologico d'Italia. Rome.
- Boll. Soc. geol. ital.* Bollettino della Società geologica italiana. Rome.
- Brit. Assoc. Handb.* British Association Handbook. Bradford.
- Bull. Acad. Imp. Sci. St.-Petersb.* Bulletin de l'Académie Impériale des Sciences. St. Petersburg.
- Bull. Acad. Roy. Belg.* Bulletins de l'Académie Royale des Sciences, des Lettres et des Beaux-Arts de Belgique. Brussels.
- Bull. Am. Geogr. Soc.* Bulletin of the American Geographical Society. New York.
- Bull. Am. Mus. Nat. Hist., N.Y.* Bulletin of the American Museum of Natural History. New York.
- Bull. Cal. State Mining Bur.* Bulletin of the California State Mining Bureau. San Francisco.
- Bull. Chicago Acad. Geol. Surv.* Bulletin of the Chicago Academy of Science, Geological and Natural History Survey. Chicago (Ill.).
- Bull. Comm. géol. Finlande.* Bulletin de la Commission géologique de Finlande. Helsingfors.
- Bull. Com. géol. Russie.* Bulletins du Comité géologique. St. Petersburg.
- Bull. Essex Inst., Salem.* Bulletin of the Essex Institute. Salem (Mass.).
- Bull. Geol. Inst. Univ. Upsala.* Bulletin of the Geological Institution of the University of Upsala. Upsala.
- Bull. Geol. Soc. Am.* Bulletin of the Geological Society of America. Rochester (N.Y.).
- Bull. Geol. Surv. Alabama.* Bulletin of the Geological Survey of Alabama. University & Montgomery (Ala.).
- Bull. Geol. Surv. Queensl.* Bulletin of the Geological Survey of Queensland (Department of Mines). Brisbane.
- Bull. Geol. Surv. W. Austr.* Bulletin of the Geological Survey of Western Australia. Perth (W. Austr.).
- Bull. Geol. Univ. Cal.* Bulletin of the Department of Geology, University of California. Berkeley (Cal.).
- Bull. Intern. Acad. Sci. Cracovie.* Bulletin International de l'Académie des Sciences. Cracow.
- Bull. Mus. Comp. Zool.* Bulletin of the Museum of Comparative Zoology at Harvard College. Cambridge (Mass.).
- Bull. Mus. Hist. nat. Paris.* Bulletin du Muséum d'Histoire naturelle. Paris.
- Bull. Nat. Hist. Soc. New Brunswick.* Bulletin of the Natural History Society of New Brunswick. St. John (N.B.).
- Bull. sci. Assoc. Elèves Ecoles spéciales, Liège.* Bulletin scientifique de l'Association des Elèves des Ecoles spéciales de Liège. Liège.
- Bull. Soc. belge Géol. Brux.* Bulletin de la Société belge de Géologie, de Paléontologie et d'Hydrologie. Brussels.
- Bull. Soc. franç. Min.* Bulletin de la Société française de Minéralogie. Paris.
- Bull. Soc. géol. France.* Bulletin de la Société géologique de France. Paris.
- Bull. Soc. géol. Norm.* Bulletin de la Société géologique de Normandie. Havre.
- Bull. Soc. Hist. nat. Toulouse.* Bulletin de la Société d'Histoire naturelle de Toulouse. Toulouse.
- Bull. Soc. Imp. Nat. Moscou.* Bulletin de la Société Impériale des Naturalistes de Moscou. Moscow.
- Bull. Soc. R. malac. Belg.* See *Ann. Soc. R. malac. Belg.*
- Bull. Soc. vaud. Sci. nat.* Bulletin de la Société vaudoise des Sciences naturelles. Lausanne.

- Canad. Rec. Sci.* Canadian Record of Science. (Natural History Society of Montreal.) Montreal.
- Centralbl. f. Min.* Centralblatt für Mineralogie, Geologie und Paläontologie. Stuttgart.
- Chem. News.* Chemical News. London.
- Coll. Guard.* Colliery Guardian. London.
- Colo. Coll. Studies.* Colorado College Studies. Colorado Springs (Colo.).
- Com. Mus. Nac. Buenos Aires.* Comunicaciones del Museo Nacional de Buenos Aires. Buenos Aires.
- Comm. Dir. Trab. geol. Portugal.* Communicações da Direcção dos Trabalhos geologicos de Portugal. Lisbon.
- Comm. geogr. e geol. S. Paulo.* Comissão geographica e geologica de São Paulo. São Paulo.
- Congrès géol. internat. Livret-Guide.* Livret-Guide des Excursions en France du VIII. Congrès géologique international. Paris.
- C. R. Acad. Sci. Paris.* Comptes-rendus hebdomadaires des Séances de l'Académie des Sciences. Paris.
- C. R. Assoc. franç. Av. Sci.* Comptes-rendus de l'Association française pour l'Avancement des Sciences. Paris.
- C. R. Congrès Hydrol. méd. Climatol. et Géol.* Comptes-rendu du V^e Congrès d'Hydrologie médicale, de Climatologie et de Géologie. Liège.
- Dan. geol. Undersög.* Danmarks geologiska Undersögelse. Copenhagen.
- Denkschr. k. Akad. Wissensch. Wien.* Denkschriften der kaiserlichen Akademie der Wissenschaften: Mathematisch-naturwissenschaftliche Classe. Vienna.
- Eclogæ Geol. Helv.* Eclogæ Geologicæ Helvetiæ. Lausanne.
- Econ. Proc. R. Dublin Soc.* Economic Proceedings of the Royal Dublin Society. Dublin.
- Engin. Mag.* Engineering Magazine. London.
- Erläut. geol. Karte Baden.* Erläuterungen zur geologischen Specialkarte des Grossherzogthums Baden. Heidelberg.
- Fennia.* Fennia. Bulletin de la Société de Géographie de Finlande. Helsingfors.
- Field Columbian Mus.* Field Columbian Museum Publications. Chicago (Ill.).
- Földt. Közl.* Földtani Közlöny. [Geological Magazine.] Budapest.
- Gas Engin. Mag.* Gas Engineer's Magazine. Birmingham.
- Gen. Rep. Geol. Surv. India.* General Report on the Work carried on by the Geological Survey of India. Calcutta.
- Geogn. Jahresh., München.* Geognostische Jahreshefte. Munich.
- Geogr. Journ.* Geographical Journal (Royal Geographical Society). London.
- Geol. Fören. Stockh. Förh.* Geologiska Föreningens i Stockholm Förhandlingar. Stockholm.
- Geol. Karte Baden.* Geologische Specialkarte des Grossherzogthums Baden. (Grossherzoglich badische geologische Landesanstalt.) Heidelberg.
- Geol. Mag.* Geological Magazine. London.
- Geol. Surv. Canada. Contr. Canad. Palæont.* Geological Survey of Canada. Contributions to Canadian Palæontology; also Mesozoic Fossils. Ottawa.
- Geol. Surv. Mich. Rep.* Geological Survey of Michigan. Reports. Lansing & Saginaw (Mich.).
- Geol. & Nat. Hist. Surv. Minn.* Geological and Natural History Survey of Minnesota. St. Paul (Minn.).
- Geol. Surv. Queensl., Publications.* Geological Survey of Queensland: Publications. Brisbane.
- Hist. Berwicks. Nat. Club.* History of the Berwickshire Naturalists' Club. Alnwick.
- Indian Engin.* Indian Engineering. Calcutta.
- Irish Nat.* Irish Naturalist. Dublin.
- Jaarb. Mijnw. Ned. O.-Ind.* Jaarboek van het Mijnwezen in Nederlandsch Oost-Indië. Amsterdam.
- Jahrb. k.-k. geol. Reichsanst.* Jahrbuch der kaiserlich-königlichen geologischen Reichsanstalt. Vienna.
- Jahrb. k.-preuss. geol. Landesanst.* Jahrbuch der königlich-preussischen geologischen Landesanstalt. Berlin.
- Jahrb. k.-ung. geol. Anst.* Jahrbuch der königlich-ungarischen geologischen Anstalt. Budapest.
- Jahrb. nassauisch. Ver. f. Naturk.* Jahrbücher des nassauischen Vereins für Naturkunde. Wiesbaden.
- Jahrb. Schw.-Alpenclub.* Jahrbuch des Schweizer-Alpenclub. Bern.
- Jahresb. Ver. Naturw. Braunschweig.* Jahresbericht des Vereins für Naturwissenschaft zu Braunschweig. Brunswick.

- Jahresh. Ver. Naturk. Württ.* Jahreshefte des Vereins für vaterländische Naturkunde in Württemberg. Stuttgart.
- Journ. Asiat. Soc. Bengal.* Journal of the Asiatic Society of Bengal. Calcutta.
- Journ. Assoc. Archit. Soc.* Journal of the Associated Architectural Societies. London.
- Journ. Bombay Branch R. Asiat. Soc.* Journal of the Bombay Branch of the Royal Asiatic Society. Bombay.
- Journ. Canad. Mining Inst.* Journal of the Canadian Mining Institute. Ottawa.
- Journ. Ceylon Branch R. Asiat. Soc.* Journal of the Ceylon Branch of the Royal Asiatic Society. Colombo.
- Journ. Chem. Soc.* Journal of the Chemical Society. London.
- Journ. China Branch R. Asiat. Soc.* Journal of the China Branch of the Royal Asiatic Society. Shanghai.
- Journ. Cinc. Soc. Nat. Hist.* Journal of the Cincinnati Society of Natural History. Cincinnati (Ohio).
- Journ. Coll. Sci. Tokyo.* Journal of the College of Science, Imperial University. Tokyo.
- Journ. Conch., Paris.* Journal de Conchyliologie. Paris.
- Journ. East India Assoc.* Journal of the East India Association. London.
- Journ. Geol. Chicago.* Journal of Geology. Chicago (Ill.).
- Journ. Iron & Steel Inst.* Journal of the Iron and Steel Institute. London.
- Journ. Linn. Soc.* Journal of the Linnean Society. London.
- Journ. Marine Biol. Assoc. U.K.* Journal of the Marine Biological Association of the United Kingdom. Plymouth.
- Journ. Northants Nat. Hist. Soc.* Journal of the Northamptonshire Natural History Society and Field Club. Northampton.
- Journ. R. Agric. Soc.* Journal of the Royal Agricultural Society. London.
- Journ. R. Inst. Cornwall.* Journal of the Royal Institution of Cornwall. Truro.
- Journ. R. Micr. Soc.* Journal of the Royal Microscopical Society. London.
- Journ. Roy. Soc. N.S.W.* Journal and Proceedings of the Royal Society of New South Wales. Sydney.
- Journ. Soc. Arts.* Journal of the Society of Arts. London.
- Journ. State Medicine.* Journal of State Medicine. London.
- Journ. Vict. Inst. London.* Journal of the Transactions of the Victoria Institute. London.
- K. danske Vidensk.-Selsk. Afh.* Kongelige danske Videnskabernes-Selskabs naturvidenskabelig og matematisk Afhandlinger. Copenhagen.
- K. svenska Vet.-Akad. Handl.* Kongliga svenska Vetenskaps-Akademiens Handlingar. Stockholm.
- Kansas Univ. Quart.* Kansas University Quarterly. Bulletin of the University of Kansas. Lawrence (Kan.).
- Knowledge.* Knowledge. London.
- Lond. Edinb. Dubl. Phil. Mag.* London, Edinburgh, and Dublin Philosophical Magazine and Journal of Science. London.
- Magy. Kir. Földtani Intézet.* See *Jahrb. k.-ung. geol. Anst.*
- Maryland Geol. Surv.* Maryland Geological Survey. Baltimore (Md.).
- Matér. Carte géol. Suisse.* Matériaux pour la Carte géologique de la Suisse. Commission géologique. Bern.
- Mater. Geol. Russ.* Materialien zur Geologie Russlands. Herausgegeben von der kaiserlichen mineralogischen Gesellschaft. St. Petersburg.
- Meddel. Upsala Univ. Min.-geol. Inst.* Meddelanden från Upsala Universitets Mineralogisk-geologiska Institution. Stockholm.
- Mém. Acad. Imp. Sci. St. Pétersb.* Mémoires de l'Académie Impériale des Sciences. St. Petersburg.
- Mém. Acad. Stanislas.* Mémoires de l'Académie de Stanislas. Nancy.
- Mem. Carta geol. Ital.* Memorie descrittive della Carta geologica d'Italia. (R. Ufficio geologico.) Rome.
- Mem. Am. Mus. Nat. Hist., N.Y.* Memoirs of the American Museum of Natural History. New York.
- Mém. Com. géol. Russie.* Mémoires du Comité géologique. St. Petersburg.
- Mem. Geol. Surv. England & Wales.* Memoirs of the Geological Survey of England and Wales. London.
- Mem. Geol. Surv. India. Palæont. Indica.* Memoirs of the Geological Survey of India. Palæontographica Indica. Calcutta.
- Mem. Geol. Surv. N.S.W.* Memoirs of the Geological Survey of New South Wales. Sydney.

- Mem. Geol. Surv. N.Y.* Memoirs of the Geological Survey of the State of New York. State Museum. University of the State of New York. Albany (N.Y.).
- Mem. Geol. Surv. U.K.* Memoirs of the Geological Survey of the United Kingdom. London, Glasgow, &c.
- Mem. Manch. Lit. Phil. Soc.* Memoirs and Proceedings of the Manchester Literary and Philosophical Society. Manchester.
- Mem. Mus. Comp. Zool.* Memoirs of the Museum of Comparative Zoology at Harvard College. Cambridge (Mass.).
- Mem. N.Y. Acad. Sci.* Memoirs of the New York Academy of Sciences. New York.
- Mem. R. Acc. Sci. Torino.* Memorie della Reale Accademia delle Scienze. Turin.
- Mem. R. Ist. lomb.* Memorie del Reale Istituto lombardo di Scienze e Lettere. Milan.
- Mem. R. Soc. S. Austr.* Memoirs of the Royal Society of South Australia. Adelaide.
- Mem. Soc. cient. Ant. Alzate.* Memorias y Revista de la Sociedad científica 'Antonio Alzate.' Mexico.
- Mém. Soc. géol. France (Paléont.).* Mémoires de la Société géologique de France. Paléontologie. Paris.
- Mém. Soc. Linn. Norm.* Mémoires de la Société Linnéenne de Normandie. Caen.
- Mém. Soc. Nat. Kiev.* Mémoires de la Société des Naturalistes. Kiev.
- Mém. Soc. paléont. suisse.* Mémoires de la Société paléontologique suisse. Geneva, &c.
- Mém. Soc. Phys. & Hist. Nat. Genève.* Mémoires de la Société de Physique et d'Histoire naturelle de Genève. Geneva.
- Mém. Soc. R. malac. Belg.* See *Ann. Soc. R. malac. Belg.*
- Mich. Miner.* Michigan Miner. Saginaw (Mich.).
- Millport Marine Biol. Stat. Comm.* Millport Marine Biological Station. Communications. Glasgow.
- Min. Mag.* The Mineralogical Magazine and Journal of the Mineralogical Society. London.
- Min. petr. Mitth.* Mineralogische und petrographische Mittheilungen. Vienna.
- Mines & Minerals, Scranton.* Mines and Minerals. Scranton (Pa.).
- Minutes of Proc. Inst. C.E.* Minutes of Proceedings of the Institution of Civil Engineers. London.
- Mitth. badisch. geol. Landesanst.* Mittheilungen der grossherzoglich badischen geologischen Landesanstalt. Heidelberg.
- Mitth. Jahrb. k.-ung. geol. Anst.* Mittheilungen aus dem Jahrbuche der königlich-ungarischen geologischen Anstalt. Budapest.
- Mitth. nat. Ver. Steiermark.* Mittheilungen des naturwissenschaftlichen Vereines für Steiermark. Graz.
- Monogr. U.S. Geol. Surv.* Monographs of the United States Geological Survey. Washington (D.C.).
- Naturalist, Leeds.* The Naturalist. Leeds & London.
- Nature.* Nature. London.
- N. J. f. Min.* Neues Jahrbuch für Mineralogie, Geologie und Paläontologie. Stuttgart.
- Notice expl. Carte géol. Suisse.* Notice explicative de la Carte géologique de la Suisse. Bern.
- Notizbl. Ver. f. Erdk. Darmstadt.* Notizblatt des Vereins für Erdkunde und der grossherzoglichen hessischen geologischen Landesanstalt. Darmstadt.
- Nouv. Arch. Mus. Hist. nat. Paris.* Nouvelles Archives du Muséum d'Histoire naturelle. Paris.
- Öfvers. K. Vet.-Akad. Förh.* Öfversigt af Kongliga Vetenskaps-Akademien's Förhandlingar. Stockholm.
- Ottawa Nat.* Ottawa Naturalist. Ottawa.
- Overs. K. danske Vidensk.-Selsk. Forh.* Oversigt over det Kongelige danske Videnskabernes-Selskabs Forhandlingar. Copenhagen.
- Paläont. Abh. Jena.* Paläontologische Abhandlungen. Jena.
- Paläontographica.* Paläontographica. Stuttgart.
- Paläontographia italica.* Paläontographia italica. Pisa.
- Papers & Rep. Min. & Mining, N.Z.* Papers and Reports relating to Minerals and Mining, N.Z. Wellington (N.Z.).
- Papers & Proc. Roy. Soc. Tasm.* Papers and Proceedings of the Royal Society of Tasmania. Hobart.
- Peterm. Mitth.* Petermann's Mittheilungen. Gotha.
- Phil. Trans. Roy. Soc.* Philosophical Transactions of the Royal Society. London.
- Photogr. Journ.* Photographic Journal. (Royal Photographic Society.) London.

- Proc. Acad. Nat. Sci. Philad.* Proceedings of the Academy of Natural Sciences. Philadelphia (Pa.).
- Proc. Am. Acad. Arts & Sci.* Proceedings of the American Academy of Arts and Sciences. Boston (Mass.).
- Proc. Am. Phil. Soc.* Proceedings of the American Philosophical Society. Philadelphia (Pa.).
- Proc. Asiatic Soc. Bengal.* Proceedings of the Asiatic Society of Bengal. Calcutta.
- Proc. Austr. Inst. M. E.* Proceedings of the Australasian Institute of Mining Engineers. Melbourne (Vict.).
- Proc. & Trans. Croydon Microsc. & Nat. Hist. Club.* Proceedings and Transactions of the Croydon Microscopical and Natural History Club. Croydon.
- Proc. & Trans. N. S. Inst. Sci.* Proceedings and Transactions of the Nova Scotian Institute of Science. Halifax (N.S.).
- Proc. & Trans. Roy. Soc. Canada.* Proceedings and Transactions of the Royal Society of Canada. Ottawa.
- Proc. Bath Nat. Hist. F. C.* Proceedings of the Bath Natural History and Antiquarian Field Club. Bath.
- Proc. Belfast Nat. F. C.* Proceedings of the Belfast Naturalists' Field Club. Belfast.
- Proc. Biol. Soc. Washington.* Proceedings of the Biological Society of Washington. Washington (D.C.).
- Proc. Boston Soc. Nat. Hist.* Proceedings of the Boston Society of Natural History. Boston (Mass.).
- Proc. Bristol Nat. Soc.* Proceedings of the Bristol Naturalists' Society. Bristol.
- Proc. Cambridge Phil. Soc.* Proceedings of the Cambridge Philosophical Society. Cambridge.
- Proc. Canad. Inst.* Proceedings of the Canadian Institute. Toronto.
- Proc. Colo. Sci. Soc.* Proceedings of the Colorado Scientific Society. Denver (Colo.).
- Proc. Cotteswold Nat. F. C.* Proceedings of the Cotteswold Naturalists' Field Club. Gloucester.
- Proc. Davenport Acad. Nat. Sci.* Proceedings of the Davenport Academy of Natural Science. Davenport (Iowa).
- Proc. Dorset Nat. Hist. F. C.* Proceedings of the Dorset Natural History and Antiquarian Field Club. Dorchester.
- Proc. Geol. Assoc.* Proceedings of the Geologists' Association. London.
- Proc. Linn. Soc.* Proceedings of the Linnean Society. London.
- Proc. Linn. Soc. N.S.W.* Proceedings of the Linnean Society of New South Wales. Sydney.
- Proc. Lit. Phil. Soc. Liverp.* Proceedings of the Literary and Philosophical Society of Liverpool. Liverpool.
- Proc. Malacol. Soc.* Proceedings of the Malacological Society. London.
- Proc. Midland Inst. M. E.* Proceedings of the Midland Institute of Mining, Civil, and Mechanical Engineers. Newcastle-upon-Tyne.
- Proc. Roy. Inst. Gt. B.* Proceedings of the Royal Institution of Great Britain. London.
- Proc. Roy. Irish Acad.* Proceedings of the Royal Irish Academy. Dublin.
- Proc. R. Phys. Soc. Edinb.* Proceedings of the Royal Physical Society of Edinburgh. Edinburgh.
- Proc. Roy. Soc.* Proceedings of the Royal Society. London.
- Proc. Roy. Soc. Edinb.* Proceedings of the Royal Society of Edinburgh. Edinburgh.
- Proc. Roy. Soc. Tasm.* Proceedings of the Royal Society of Tasmania. Hobart.
- See *Papers & Proc.*
- Proc. Soc. Bibl. Arch.* Proceedings of the Society of Biblical Archæology. London.
- Proc. S. Wales Inst. Engin.* Proceedings of the South Wales Institute of Engineers. Cardiff.
- Proc. verb. Soc. R. malac. Belg.* Procès-verbaux des Séances de la Société Royale malacologique de Belgique. Brussels.
- Proc. Wash. Acad. Sci.* Proceedings of the Washington Academy of Sciences. Washington (D.C.).
- Proc. Yorks. Geol. Soc.* Proceedings of the Yorkshire Geological and Polytechnic Society. Halifax.
- Proc. Zool. Soc. London.* Proceedings of the Zoological Society. London.
- Publ. Carnegie Mus.* Publications of the Carnegie Museum. Pittsburg (Pa.).
- Publ. Earthq. Comm. Tokyo.* Publications of the Earthquake Investigation Committee in Foreign Languages. Tokyo.
- Q. J. G. S.* Quarterly Journal of the Geological Society. London.

- Q. J. R. Met. Soc.* Quarterly Journal of the Royal Meteorological Society. London.
Q. Med. Journ. Quarterly Medical Journal. London.
Quarry. The Quarry. London.
Rendic. R. Ist. lomb. Reale Istituto lombardo di Scienze e Lettere. Rendiconti. Milan.
Rep. & Proc. Belfast Nat. Hist. Soc. Report and Proceedings of the Belfast Natural History and Philosophical Society. Belfast.
Rep. Brit. Assoc. Report of the British Association for the Advancement of Science. London.
Rep. Brit. S. Africa Co. Report on the British South Africa Company. London.
Rep. Dep. Mines N.S. Report of the Department of Mines, Nova Scotia. Halifax (N.S.).
Rep. Dep. Mines, W. Austr. Report of the Department of Mines, W. Australia. Perth (W. Austr.).
Rep. Geol. Surv. Louisiana. Report of the Geological Survey of Louisiana. Baton Rouge (La.).
Rep. Inst. Mines & Forests Brit. Guiana. Report of the Council of the Institute of Mines and Forests on the Gold and Forest Industries of British Guiana. Georgetown (Demerara).
Rep. Rugby School Nat. Hist. Soc. Report of the Rugby School Natural History Society. Rugby.
Rep. S.E. Union Sci. Soc. See *Trans. S.E. Union Sci. Soc.*
Rep. U.S. Dep. Agric. Report of the United States Department of Agriculture. Washington (D.C.).
Rep. Univ. Geol. Surv. Kansas. Reports of the University Geological Survey of Kansas. Topeka (Kan.).
Rev. Cienc., Lima. Revista de Ciencias. Lima.
Rev. Inst. geogr. & hist. Bahia. Revista trimensal do Instituto geographico e historico da Bahia. Bahia.
Rev. Minas, Santiago. Revista de Minas. Santiago de Chile.
Rev. Mus. Paulista. Revista do Museu Paulista. São Paulo.
Rev. Sci. Paris. Revue Scientifique. Paris.
Rev. suisse Zool. Genève. Revue suisse de Zoologie. Geneva.
Riv. ital. Paleont. Bologna. Rivista italiana di Paleontologia. Bologna (*late* Parma).
Riv. Min. e Crist. ital. Padova. Rivista di Mineralogia e Cristallografia italiana. Padua.
Rochester Nat. Rochester Naturalist. Rochester.
Rozpr. Akad. Umiej. Krakow. Rozprawy Akademii Umiejetności Wydział matematyczno-przyrodniczy. Cracow.
Samml. geol. R.-Mus. Leiden. Sammlungen des geologischen Reichs-Museums in Leiden. Leyden.
Schr. Gesellsch. Naturw. Marburg. Schriften der Gesellschaft zur Beförderung der gesammten Naturwissenschaften zu Marburg. Marburg.
Schr. physik.-ökonom. Gesellsch. Königsb. Schriften der physikalisch-ökonomischen Gesellschaft. Königsberg in Pr.
Sci.-Gossip. Science-Gossip. London.
Sci. Trans. R. Dublin Soc. Scientific Transactions of the Royal Dublin Society. Dublin.
Science. Science. New York.
Scot. Geogr. Mag. Scottish Geographical Magazine. (Royal Scottish Geographical Society.) Edinburgh.
Sitz. deutschen naturw.-medic. Ver. Böhmen 'Lotos.' Sitzungsberichte des deutschen naturwissenschaftlich-medizinischen Vereines für Böhmen 'Lotos.' Prag.
Sitz. Gesellsch. naturf. Freunde, Berlin. Sitzungsberichte der Gesellschaft naturforschender Freunde. Berlin.
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- Summ. Rep. Geol. Surv. Canada.* Summary Report of the Geological Survey of Canada. Ottawa.
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- Trans. Am. Phil. Soc.* Transactions of the American Philosophical Society. Philadelphia (Pa.).
- Trans. Austr. Inst. M.E.* Transactions of the Australasian Institute of Mining Engineers. Melbourne & Sydney.
- Trans. Brit. Assoc. Waterworks Eng.* Transactions of the British Association of Waterworks Engineers. London.
- Trans. Canad. Inst.* Transactions of the Canadian Institute. Toronto.
- Trans. Connect. Acad.* Transactions of the Connecticut Academy of Arts and Sciences. New Haven (Conn.).
- Trans. Devon. Assoc.* Transactions of the Devonshire Association for the Advancement of Science. Plymouth.
- Trans. Herts Nat. Hist. Soc.* Transactions of the Hertfordshire Natural History Society and Field Club. Hertford.
- Trans. Hist. & Sci. Soc. Manitoba.* Transactions of the Historical and Scientific Society of Manitoba. Winnipeg.
- Trans. Hull Geol. Soc.* Transactions of the Hull Geological Society. Hull.
- Trans. Hull Sci. & F. Nat. Club.* Transactions of the Hull Scientific and Field Naturalists' Club. Hull.
- Trans. Inst. Mining & Metall.* Transactions of the Institution of Mining and Metallurgy. London.
- Trans. Inst. M. E.* Transactions of the Institution of Mining Engineers. Newcastle-upon-Tyne.
- Trans. Kansas Acad. Sci.* Transactions of the Kansas Academy of Science. Topeka (Kan.).
- Trans. Leicester Lit. & Phil. Soc.* Transactions of the Leicester Literary and Philosophical Society. Leicester.
- Trans. Linn. Soc.* Transactions of the Linnean Society. London.
- Trans. Manch. Geol. Soc.* Transactions of the Manchester Geological Society. Manchester.
- Trans. N. Engl. Inst. Min. & Mech. Eng.* Transactions of the North of England Institute of Mining and Mechanical Engineers. Newcastle-upon-Tyne.
- Trans. N.Z. Inst.* Transactions and Proceedings of the New Zealand Institute. Wellington (N.Z.).
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- Trans. Perth. Soc. Nat. Sci.* Transactions and Proceedings of the Perthshire Society of Natural Science. Perth.
- Trans. R. Geol. Soc. Cornwall.* Transactions of the Royal Geological Society of Cornwall. Penzance.
- Trans. Roy. Irish Acad.* Transactions of the Royal Irish Academy. Dublin.
- Trans. Roy. Soc. Canada.* See *Proc. & Trans. Roy. Soc. Canada.*
- Trans. Roy. Soc. Edinb.* Transactions of the Royal Society of Edinburgh. Edinburgh.
- Trans. Roy. Soc. S. Austr.* Transactions of the Royal Society of South Australia. Adelaide.
- Trans. S.A. Phil. Soc.* Transactions of the South African Philosophical Society. Cape Town.
- Trans. S.E. Union Sci. Soc.* Transactions of the South Eastern Union of Scientific Societies. London.
- Trans. Scot. Nat. Hist. Soc.* Transactions of the Scottish Natural History Society. Edinburgh.
- Trans. Zool. Soc. London.* Transactions of the Zoological Society. London.
- Tridentum.* 'Tridentum.' Rivista mensile di Studi scientifici. Trient (Tyrol).
- Tufts Coll. Studies.* Tufts College Studies. Tufts College (Mass.).
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- Zeitschr. f. Berg-, Hütt.-Salinenw.* Zeitschrift für das Berg-, Hütten- und Salinenwesen im preussischen Staate. Berlin.
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- Zeitschr. f. Naturw. Sachsen.* Zeitschrift für Naturwissenschaften. Organ des naturwissenschaftlichen Vereins für Sachsen und Thüringen. Stuttgart.
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 ———, red clay.—Meunier, S.
 ———, Russia.—Bogoslovski, N.
 ———, Seine.—Meunier, S.
Alnus.—Andersson, G.
Aloiopteris.—White, D.
 Alps, Austrian.—Bittner, A.
 ———, Bernese.—Golliez, —; Hug, O.;
 Loriol, P. de.
 ———, buried.—Cole, G. A. J.
 ———, Carnic.—Geyer, G.
 ———, Cottian.—Colomba, L.; Kilian,
 M.; Termier, P.
 ———, Dauphiné.—Bertrand, M., &c.
 ———, Fribourg.—Hug, O.
 ———, geomorphology.—Richter, E.
 ———, glacier-variations.—Forel, F. A.,
 &c.
 ———, Glarus.—Blumel, S.; Rothpletz,
 A.
 ———, Graian.—Franchi, S.; Struever,
 J.; Weinschenk, E.
 ———, Italian.—Franchi, S.; Tommasi,
 C.
 ———, Karawankas.—Teller, F.
 ———, Lepontine.—Weinschenk, E.
 ———, limestones.—Hovelacque, M.
 ———, Maritime.—Baldacci, L., &c.;
 Riaz, A. de.
 ———, Mussa.—Weinschenk, E.
 ———, Noric.—Abel, O.
 ———, Piedmontese.—Baldacci, L., &c.
 ———, Rhaetian.—Benecke, E. W.; Bod-
 mer-Beder, A.; Rothpletz, A.
 ———, Savoy.—Bertrand, M., &c.; Fliche,
 P.; Schardt, H.
 ———, Swabian.—Gugenhan, —.
 ———, Swiss.—Renevier, E., &c.
 ———, Tertiary.—Koken, E.
 ———, torsion-structure.—Buchanan, J.
 Alsace-Lorraine (Germany).—Benecke,
 E. W., &c.
 Altenburg (Germany).—Naumann, C.
 Altenmarkt (Salzburg).—Bittner, A.
 Alum.—Elsden, J. V., &c.; Lemberg,
 J.
 Alum Hill (Colo.).—Andrews, C. I.
 Alumina, hydrated phosphate.—Hartley,
 E. G. J.; Hussak, E., &c.; Miers, H.
 A.; Prior, G. T.
Alveolina.—Chapman, F.
Amalthus.—Burckhardt, C.; Fucini,
 A.
Amauropsis.—Vogel, F.
 Amber.—Klebs, R.; Lane, M.; Splieth,
 W.
Amberleya.—Cossmann, M.
Ambocelia.—Grabau, A. W.; Rowley,
 R. R.
 America (Central).—Bertrand, M.;
 Hayes, C. W.; Stuebel, A.
 ——— (North), Eocene.—Smith, J. H.
 ——— (——), Geology, palæontology,
 petrology, & mineralogy, 1897 &
 1898.—Weeks, F. B.
 ——— (——), pre-Cambrian literature.—
 Leith, C. K.

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 — (—). See also Alaska, Canada, U.S.A., &c.
 — (S.), Palæontology.—Villareal, E.
 — (—). See also Argentina, Brazil, &c.
 American Museum of Natural History (N.Y.). See Museums.
 Amgun R. (Siberia).—Glasser, E.
 Amiata, Mt. (Tuscany).—Fantappiè, L.
Amiopsis.—Eastman, C. R.
 Ammer-Gebirge (Bavaria).—Sehle, U.
Ammodiscus.—Chapman, F.
 Ammonites, Cretaceous. — Baumberger, E.; Blanckenhorn, —; Bornhardt, W., &c.; Cragin, F.W.; Grossouvre, A. de; Jukes-Browne, A.J.; Popovici-Hatzeg, V.; Schlueter, C.; Simionescu, J.; Whiteaves, J. F.
 —, Jurassic.—Bellini, R.; Bonarelli, G.; Bornhardt, W., &c.; Canavari, M.; Crick, G. C.; Holland, F.; Hug, O.; Lorient, P. de; Rothpletz, A.; Sehle, U.; Stuebin, K.; Tommasi, A.
 —, Trias.—Bornhardt, W., &c.; Mariani, E.
 —, Zieten's types.—Crick, G. C.
Amphistræa.—Gregory, J. W.
 Amphibolite.—Daly, A.; Sestini, F.; Seymour, H. J.
Amphiceras.—Fucini, A.
Amphiclina.—Bittner, A.
 Amphineura, Triassic.—Jækel, O.
Amphiperas.—Roverto, G.
Amplexus.—Enderle, J.; Grabau, A. W.
Ampullaria.—Mayer-Eymar, C.
Ampullina.—Cossmann, M.
Amussium.—Burckhardt, C.; Gregorio, A. de.
Amyelon.—Scott, D. H.
Anabacia.—Gregory, J. W.
Anadora.—Newton, R. B.
Anadyomene.—Beyschlag, F., &c.
 Analcite.—Clarke, F. W.; Dal Piaz, G.; Gaubert, P.
 Analyses, Munich district rocks.—Schwager, A.
 —, New South Wales minerals.—Mingay, J. C. H.
 —, rock.—Washington, H. S.
 —. See also Igneous rocks, &c.
Anarosaurus.—Schrammen, A.
 Anatase.—Brugnatelli, L.; Schmidt, C.
Anatibetites.—Mojsisovics, E. von.
Anatina.—Hague, A., &c.; Whiteaves, J. F.; Wollemann, A.
Anatomites.—Mojsisovics, E. von.
Ancyrocrinus.—Grabau, A. W.
 Andalusite.—Heddle, M. F.
 Andes, (S. Am.).—Bonney, T. G.; Burckhardt, C.; Crick, G. C.; Steffen, H.; Wehrli, L.
 Andesite.—Becke, F.; Bæckh, H.; Duparc, L., &c.; Gentil, L.; Lacroix, A.; Lewinson-Lessing, F.; Ordóñez, E., &c.; Rinne, F.; Schröder van der Kolk, J. L. C.; Spurr, J. C.; Washington, H. S.
 Andesite. See also Igneous rocks.
 ANDREWS, W.—Anon. 32.
Andromeda.—Andersson, G.; Hollick, A.
 Androscoggin Co. (Me.).—Burr, H. T.
Angelica.—Andersson, G.
 Angels (Cal.).—Collier, J. H., Jun.
 Angers (Anjou).—Grenwell, A.
 Anglesey (Wales).—Greenly, E.; Matley, C. A.
 Anglesite.—Millosevich, F.
 Anglo-Franco-Belgian basin, *Corbicula fluminalis* zone.—Rutot, A.
 Anhydrite.—Van 't Hoff, J. H., &c.; Vater, H.
Anisocenia.—Andrews, C. W., &c.
 Ankerite.—Rogers, A. F.
 Annaberg (Saxony).—Dahner, K.
 Annelid-tracks, pre-Cambrian. — Walcott, C. D.
 Annelida, Cambrian.—Matthew, G. F.
 —, Devonian.—Grabau, A. W.
 —, Silurian.—Ami, H. M.
Annularia.—Taff, J. A.; White, D.; Zeiller, R.
Anodontophora.—Bittner, A.
Anolcites.—Diener, C.
Anomia.—Bæckh, H.; Bornhardt, W., &c.; Oppenheim, P.; Sokolov, N.; Whiteaves, J. F.
Anomocare.—Toll, E. von.
Anoplophora.—Emerson, B. K.
 Anorthite.—Zambonini, F.
 Anorthoclase.—Prior, G. T.
 Anorthosite.—Kemp, J. F.
 Antarctic.—Arctovski, H.; Borchgrevink, C. E.
 —, Ross Expedition, 1839–1843.—Prior, G. T.
Antedon.—Lorient, P. de.
 Anthophyllite.—Lacroix, A.
 Anthracite, Bohemia.—Eichleiter, C. F., —, Nassau iron-ore with.—Lewie, L.
 Anthracolithic beds, Asia Minor.—Enderle, J.
 — fauna, Kashmir & Spiti.—Diener, C.
Anthracomys.—Packard, A. S.
Anthracosia.—Beyschlag, F., &c.
Anthracootherium.—Pavlov, M.
 Anthropogeography.—Mill, H. R.
 Antilles. See West Indies.
 Antimony, Servia.—Beck, R., &c.
 —, United States.—Parker, E. W.
 Antrim (Ireland).—Elsden, J. V., &c.; Pollok, J. H.; Sawyer, E. R.
 Ants, geological agency of.—Branner, J. C.
 Antwerp (Belgium).—Dautzenberg, P., &c.; Van Ertborn, O.
 Aosta Valley (Piedmont).—Franchi, S.
Aparchites.—Canavari, M.

- Apatite*.—Fantappiè, L.; Gruenling, F.; Guerich, G.; Teall, J. J. H.; Termier, P.
- Apatopcephalces*.—Reed, F. R. C.
- Apeibopsis*.—Peola, P.
- Apennines* (Italy).—Bonarelli, G.; Cassetti, M.; Franchi, S.; Fucini, A.; Nelli, B.; Oppenheim, P.; Sacco, F.; Stefani, C. de; Viola, C.
- Aphlebia*.—White, D.
- Aplite-gneiss*.—Angelis d'Ossat, G. de, &c.
- Apocynophyllum*.—Hollick, A.
- Aporrhais*.—Böckh, H.; Jukes-Browne, A. J.; Rovert, G.; Wollemann, A.
- Appenzell* (Switzerland).—Letsch, E.
- Apscheron Peninsula* (Caspian).—Mauerhofer, J.
- Apteryx*.—Osborn, H. F.
- Aptian*.—Repelin, J.
- Aptychopsis*.—Matthew, G. F.
- Aptychus*.—Søhle, U.
- Aptychiella*.—Cossmann, M.
- Aquila* (Abruzzi).—Nelli, B.
- Aquilonian*.—Van den Broeck, E.
- Aquitaine* (France).—Glangeaud, P.
- Aragonite*.—Vater, H.
- Aralia*.—Hague, A., &c.
- Araphoe*, Mt. (Colo.).—Lee, W. T.
- Ararat*, Mt. (Asia Minor).—Dannenberg, A.
- Araucarites*.—Ward, L. F., &c.
- Araucarioxylon*.—Shaler, N. S., &c.; Ward, L. F.
- Arca*.—Bauer, K.; Böckh, H.; Bornhardt, W., &c.; Krause, P. G.; Loriol, P. de; Rovert, G.; Simionescu, J.; Vogel, F.; Wollemann, A.
- Arcestes*.—Mojsisovics, E. von.
- Archæan-Cambrian*, Colorado.—Crosby, W. B.
- , Finland.—Geer, G. de.
- , India.—Holland, T. H.
- , Malverns.—Groom, T. T.
- , Michigan.—Clements, J. M., &c.
- , Norway.—Holmquist, P. J.
- , Sweden.—Geer, G. de; Hægbom, A. G.
- Archæocalamites*.—Scott, D. H.
- Archæocyathina*.—Hague, A., &c.
- Archæocyathus*.—Toll, Baron E. von.
- Archæoplax*.—Packard, A. S.
- Archæopteris*.—Nathorst, A. G.; Zeiller, R.
- Archæoplus*.—Ameghino, F.
- Archæoseris*.—Gregory, J. W.
- Archangel* (Russia).—Knipovich, N.
- Archelon*.—Wieland, G. R.
- Arcomya*.—Repelin, J.
- Arcopagia*.—Nelli, B.; Newton, R. B.
- Arctic*.—Andersson, J. G.; Diener, C.; Fox-Strangways, C.; Jensen, A. S.; Knipovich, N.; Lindstrøm, G.; Nathorst, A. G.; Pompeckj, J. F.; Toll, Baron E. von; Woodward, A. S.
- Arctic fauna*.—Scharff, R. F.
- , FEILDEN's work in.—Bonney, T. G.
- , Ocean.—Knipovich, N.
- Arctostaphylos*.—Andersson, G.; Hague, A., &c.
- Arctotherium*.—Woodward, A. S.
- Ardèche* (France).—Boule, M., &c.
- Ardennes*.—Anon. 66; Gosselet, J.; Parsons, H. F.; Raisin, C. A.; Reade, T. M.
- Ardnamurchan* (Argyll).—Busz, H.
- Arenicolites*.—Callaway, C.; Matthew, G. F.
- Arfvedsonite*.—Lacroix, A.
- Argenteuil* (Seine-et-Oise).—Dollfus, G., &c.
- Argentina* (S. A.).—Bodenbender, G.; Burckhardt, C.; Kurtz, F.; Norden-skjöld, O.; Outes, F. F.; Woodward, A. S.
- , See also Patagonia, &c.
- Argentite*.—Achiardi, G. d'.
- Argillaceous sandstone*, Apennines.—Oppenheim, P.
- Argillite*.—Wilson, T.
- Argillæcia*.—Lienenklaus, E.
- Argo Tunnel* (Colo.).—Lakes, A.
- ARGYLL*, Duke of.—Anon. 1; Geikie, Sir A.
- Argyllshire*.—Busz, K.; Geikie, Sir A.; Hill, J. B., &c.; Seward, A. C.
- Arrière* (France).—Harlé, E.; Lacroix, A.
- Arietites*.—Bonarelli, G.; Fucini, A.; Hug, O.; Søhle, U.
- Arionellus*.—Hague, A., &c.
- Aristodesmus*.—Seeley, H. G.
- Arizona* (U.S.A.).—Douglas, J.; Lakes, A.
- Arkansas* (U.S.A.).—Parker, E. W.
- Arlesey* (Beds).—Hill, W.
- Armagh* (Ireland).—Egan, F. W.
- Armorican massif* (France).—Kerforne, F.
- Arnex* (Vaud).—Baltzer, A.
- Arnioceras*.—Bonarelli, G.
- Arno Valley* (Tuscany).—Bosco, C.
- Arpadites*.—Mojsisovics, E. von; Tommasi, A.
- Arpaia*, Grotto (Spezia).—Capellini, G.
- Arques* (Normandy).—Gosselet, J.
- Arran* (I. of).—Geikie, Sir A.
- Arras* (Artois).—Gosselet, J.
- Arrhinolenur*.—Ameghino, F.
- Arsenates*, natural.—Hartley, E. G. J.
- Arsenical limestone*, Radan Valley.—Scheibe, R.
- Artesian water*, Denver.—Strong, W. C.
- , theory of.—Stella, A.
- Artesian wells*, Bordeaux.—Billiot, J. T.
- , Hungary.—Adda, K. von.
- , Italy.—Stefano, G. de.
- , theory of.—King, F. H.; Slichter, C. S.
- , See also Borings.
- Arthaberites*.—Diener, C.
- Arthricocephalus*.—Bergeron, J.
- Arthrodendron*.—Scott, D. H.
- Articulina*.—Robertson, —.
- Artinskian*.—Karpinski, A.
- Artiodactyla*, Tertiary.—Pavlov, A.
- Artlenburg* (Hanover).—Kört, W.

- Artocarpus*.—Hague, A., &c.; Hollick, A.
Arundel (Sussex).—Mill, H. R.
Arvicola.—Bosco, C.
Asbestos.—Parker, E. W.
Ash (Kent).—Chapman, F.
Ashanti.—Hull, E.
Ashby-de-la-Zouch (Leicester).—Fox-Strangways, C.
Asia, Central.—Hedin, S.; Strachey, Sir R.
 —, Eastern.—Boehm, G.; Richthofen, Baron F. von.
 —. *See also* China, Himalayas, &c.
Asia Minor.—Dannenberg, A.; Enderle, J.; Mauerhofer, J.; Montessus de Ballore, F. de; Zeiller, R.
Asidoceras.—Loriol, P. de.
Asphalt, California.—Cooper, A. S.
 —, Jura.—Meunier, S.
 —, United States.—Parker, E. W.
Aspidella.—Walcott, C. D.
Aspidoceras.—Bornhardt, W., &c.
Asplenium.—Hague, A., &c.; Ward, L. F., &c.
Asprières (Aveyron).—Trévenin, A.
Assam.—Harris, G. E.
Assuan (Egypt).—Szadeczki, J.
Astarte.—Bornhardt, W., &c.; Burckhardt, C.; Greppin, E.; Hague, A., &c.; Harris, G. D.; Loriol, P. de; Vogel, F.; Wollemann, A.
Astley (Lancs).—Peace, G.
Asterocalamites.—Zeiller, R.
Asteroceras.—Bonarelli, G.
Asterocenia.—Gregory, J. W.; Sæhle, U.; Whiteaves, J. F.
Asteroides, Jurassic.—Loriol, P. de.
 —, Palæozoic.—Stuert, B.
 —. *See also* Echinoidea.
Asterophyllites.—White, D.; Zeiller, R.
Asterotheca.—Abbado, M.; Scott, D. H.
Astræopoda.—Oppenheim, P.
Astrakhan (Russia).—Rehbinder, B.
Astrangia.—Oppenheim, P.
Astrocenia.—Bornhardt, W., &c.; Sæhle, U.
Astronomy, geology &c.—Beglinger, J.; Péroche, J.
Asturias (Spain).—Jones, J. A.
Asymptoceras.—Yakovlev, N.
Atacama (Chile).—Loram, S. H.; Wolff, F. von.
Ataphrus.—Cossmann, M.
Ateleaspis.—Traquair, R. H.
Atherstone (Warwick).—Fox-Strangways, C.
Athrotaxopsis.—Ward, L. F., &c.
Athyris.—Diener, C.; Grabau, A. W.; Hague, A., &c.; Rowley, R. R.
Atlantic (S.), igneous island.—Prior, G. T.
Atlantochelys.—Wieland, G. R.
Atlas Mts. (Morocco).—Fischer, T.
Atmosphere, geology of.—Stevenson, J.
 —, glacial periods.—Chamberlin, T. C.
Atops.—Matthew, G. F.
Attractites.—Diener, C.; Mojsisovics, E. von; Tommasi, A.
Atruria.—Rovert, G.
Atrypa.—Grabau, A. W.; Hague, A., &c.; Rowley, R. R.
Atys.—Cossmann, M.
Aucella.—Huene, F. von; Wollemann, A.
Augite.—Sestini, F.
 —, mica from.—Fantappiè, L.; Parsons, J.
Augite-syenite-gneiss.—Cushing, H. P.
Aulacothyrus.—Bittner, A.; Loriol, P. de.
Aulocetus.—Capellini, G.
Aulococeras.—Tommasi, A.
Aulocomerella.—Huene, F. von.
Aulocrinus.—Springer, F.
Aulolepis.—Woodward, A. S.
Aulopora.—Grabau, A. W.; Hague, A.
Auricula.—Rovert, G.
Auriferous conglomerates. *See* Gold, &c.
 — deposits, Quebec.—Chalmers, R.
 —. *See also* Gold, Veins, &c.
Auronzo (Carnic Alps).—Geyer, G.
Australasia, former connections.—Howitt, A. W.
Australia. *See also* Coal, Gold, &c.
 — (S.).—Brown, H. Y. L.; Clark, E. V.; Dennant, J.; Garnier, J.; Higgin, A. J.; Howchin, W.; Stirling, E. C., &c.; Tate, R.
 — (W.).—Beyschlag, F., &c.; Maitland, A. G.; Wittenoom, E. H.
Austria (Lower).—Abel, O.; Karrer, F.
Austria (Upper).—Diener, C.
Austria-Hungary, Geological Institute.—Stache, G.; Tietze, E. &c.
 —. *See also* Bohemia, Tyrol, &c.
Autodetus.—Grabau, A. W.
Autun (Saône-et-Loire).—Vélain, C., &c.
Auvergne (France).—Boule, M., &c.; Fliche, —; Giraud, J.; Glangaud, P.; Kuntz, G. F.; Lacroix, A.; Michel-Lévy, A.
 —. *See also* Puy de Dôme, &c.
Auvers-sur-Oise (Seine-et-Oise).—Dollfus, G. F., &c.
Auxerre (Burgundy).—Vélain, C., &c.
Avalonia.—Matthew, G. F.
Avallon (Burgundy).—Vélain, C.
Aves. *See* Birds.
Aveyron (France).—Trévenin, A.
Aveys, I. (La.).—Romeyn, H.
Avicula.—Bittner, A.; Bornhardt, W., &c.; Hague, A., &c.; Huene, F. von; Krause, P. G.; Philippi, E.; Sæhle, U.; Tommasi, C.; Whiteaves, J. F.; Wolterstorff, W.
Aviculopecten.—Diener, C.; Grabau, A. W.; Herrick, C. L.; Philippi, E.; Tornquist, A.; Wolterstorff, W.
Aviculoperna.—Oppenheim, P.
Avion (Nord).—Desailly, L.
Awyden (E. Prussia).—Krause, P. G.
Axinæa.—Rovert, G.
Azurite.—Riva, C.
Baccharites.—Fliche, P.

- Bachytrema*.—Cossmann, M.
Bacteria, coal.—Renault, B.
Bactrites.—Grabau, A. W.
Bactronella.—Hinde, G. J.
Bactroptyxis.—Cossmann, M.
Baculites.—Harris, G. D.
Bad Lands (South Dakota).—Penfield, S. L., &c.
Baden (Germany).—Dittrich, M.; Lorient, P. de; Neumann, L.; Rosenbusch, H.; Schalch, F.
—, Geological Survey.—Andreae, A., &c.; Sauer, A.; Schalch, F.; Steinmann, G., &c.; Thuerach, H.
Bagnasco (Lombardy).—Peola, P.
Bahia (Brazil).—Branner, J. C.
Baiera.—Seward, A. C. &c.
Baieropsis.—Ward, L. F.
Baikal, Lake (Siberia).—Jeremejev, P. von; Montessus de Ballore, F. de.
Bairdia.—Capeder, G.; Chapman, F.; Grabau, A. W.; Lienenklaus, E.
Bajocian.—Greppin, E.
BAKER, W. J.—Whitaker, W.
Bakevellina.—Herrick, C. L.
Bakony (Hungary).—Hornes, H.
Baku (Caucasus).—Mauerhofer J.
Bala Lake (N. Wales).—Lake, P.
Balby (Yorks).—Sheppard, T.
Balearic Is.—Vuillier, G.
Balia Maaden (Asia Minor).—Enderle, J.
Balikesri (Asia Minor).—Agamennone, G.
Ballersbach (Hesse).—Kayser, E.
Ballyjamesduff (Cavan).—McHenry, A., &c.
Balmain (N.S.W.).—Rae, J. L. C., &c.
Baltic, amber.—Lane, M.; Splieth, W., &c.
— drift.—Baltzer, A.; Keilhack, K.
— Silurian.—Huene, F. von.
—, See also Pomerania, &c.
Baltschied Valley (Valais).—Schmidt, C.
Baluchistan.—Holdich, Sir T. H.
Bambusa.—Peola, P.
Banakite.—Hague, A., &c.
Banksia.—Fliche, P.
Banlieue (Flanders).—Van Ertborn, O.
Barbatia.—Harris, G. D.
Barcelona (Catalonia).—Almera, J. See also Catalonia.
Bardoria.—Matthew, G. F.
Barèges Valley (Pyrenees).—Briet, L.
Barium sulphate, sandstones and.—Wedd, C. B.
Barmouth (Merioneth).—Cooke, J. H.; Tucker, W. T.
Baróth Köpecz (Hungary).—Schlosser, M.
Baryphyllia.—Søhle, U.
Barytes.—Achiardi, G. d'; Elsdén, J. V., &c.; Millosevich, F.; Parker, E. W.; Schmidt, C.; Weibull, M.
Basalt, Africa (Equatorial).—Angelis d'Ossat, G. de, &c.
Basalt, Algeria.—Duparc, L., &c.
—, Auvergne.—Giraud, J.; Michel-Lévy, A., &c.
—, Celebes.—Rinne, F.
—, Christmas I.—Andrews, C. W., &c.
—, Hesse.—Rinne, F.; Schottler, W.
—, Hoko Is.—Kotô, B.
—, Hungary.—Koch, A.
—, Iceland.—Pjetursson, H.
—, Ireland.—Elsden, J. V., &c.
—, Michigan.—Clements, J. M., &c.
—, Nevada.—Spurr, J. E.
—, Sicily.—Rosati, A.
—, Siebengebirge.—Kayser, E.
—, Somaliland.—Gennes, A. de, &c.
—, Yellowstone Park.—Hague, A., &c.
Basilicata (Italy).—Grecò, B.
Basle (Switzerland).—Buxtorf, A.; Greppin, E.; Seeley, H. G.; Stuebin, K.
Basterotia.—Rovertò, G.
Bastide, La (Var).—Guébbard, A.
Bassariscus.—Wortman, J. L.
BASSI, F.—Vinassa de Regny, P. E.
Bastogne (Belgium).—Raisin, C. A.
Batavia, Bate's Bay (Alaska).—Abercrombie, W. R.
Batavite.—Gaubert, P.
Bath stone.—David, W.
Bathonian.—Bigot, A.; Cossmann, M.; Janet, L.
—, See also Jurassic.
Bathyriscus.—Hague, A., &c.; Matthew, G. F.; Toll, Baron E. von.
Batocrinus.—Rowley, R. R.
Batrachium.—Andersson, G.
Batrachoides.—Sacco, F.
Baudour (Hainault).—Cornet, J.
Bauxite, Arkansas.—Parker, E. W.
Bavaria.—Ammon, L.; Benecke, E. W.; Cole, G. A. J.; Huene, F. von; In-keller, H.; Reis, O. M.; Rollier, L.; Schwager, A.; Søhle, U.; Wein-schenk, E.; Zittel, K. A. von.
—, geological literature.—Pfaff, F. W.
—, Rhenish.—Bayberger, F.; Oebbecke, —.
Baveno-twinning.—Milch, L.
Baviaan, R. (Cape Colony).—Seeley, H. G.
Bayeux (Normandy).—Skrodzki, J.
Bayford (Herts).—Coomára-Swámy, A. K.
Bdelloidina.—Chapman, F.
Beaches, cusps.—Branner, J. C.; Wood-man, J. E.
—, Iroquois.—Coleman, A. P.
—, Red Sea.—Newton, R. B.
—, Romney Marsh.—Case, E.
—, Weymouth.—Richardson, N. M.
—, See also Raised Beaches, &c.
Beachy Head (Sussex).—Rowe, A. W., &c.
Bear Butte (Dakota).—Barrell, R. W.
Bear I. (Arctic).—Andersson, J. G.; Lindström, G.; Nathorst, A. G.
Bears, Tertiary, &c. See *Ursus*.

- Beaufort Dyke (Mull of Galloway).—Kinahan, G. H.
 Beaurain (Namur).—Dorlodot, H. de ; Forir, H., &c.
 Beauvais (Oise).—Breuil, — ; Dollfus, G. F., &c.
 Bedfordshire.—Cameron, A. C. G., &c. ; Hill, W. ; Jukes-Browne, A. J.
 Beek Heath (L. Rhine).—Virchow, R.
 Béla (Hungary).—Horusitzki, H.
 Bela.—Oppenheim, P.
 Belcher Hill (Colo.).—Patton, W. B.
Belemnitella.—Popovici-Hatzeg, V.
Belemnites.—Jukes-Browne, A. J. ; Schaffer, F. ; Simionescu, J. ; Tommasi, A.
 Belford I. (Northumberland).—Gunn, W.
 Belgian Antarctic Expedition.—Arctowski, H.
 Belgium, clays and marls.—Cornet, J. ; Forir, H. ; Petermann, —, &c.
 —, coalfields. *See* Coalfields.
 —, *Corbicula fluminalis*-zone.—Rutot, A.
 —, Geological Survey. *See* Geological Survey.
 —. *See also* Brabant, Quaternary, Silurian, &c.
Belinurus.—Ami, H. M.
 Bell I., Great (Newfoundland).—Nitze, H. B. C.
 Bellasian.—Choffat, P.
Bellerophon.—Bittner, A. ; Enderle, J. ; Grabau, A. W. ; Herrick, C. L. ; Yakovlev, N.
 Bellongue (Ariège).—Caralp, — ; Stuart-Menteth, P. W.
 Belmont (Nevada).—Spurr, J. E.
Beltina.—Walcott, C. D.
 Belugyte rock-group.—Spurr, J. E.
Bembicosoma.—Laurie, M.
 Bennet's End (Herts).—Green, U.
Bennettites.—Scott, D. H.
Berardius.—Koch, A.
 Berchtesgaden (Bavaria).—Waagen, L.
 Berdiansk (Russia).—Morozovich, I.
Berenicea.—Gregory, J. W.
 Beresite.—Spurr, J. E.
 Bergamo (Lombardy).—Porro, C. ; Taccioni, E.
 Berkshire.—Jukes-Browne, A. J.
 Berkshire Co. (Mass.).—Emerson, B. K.
 Bermudas (W. I.).—Buchan, J. S. ; Verrill, A. E.
 Bern (Switzerland).—Baltzer, A. ; Fellenberg, E. ; Schardt, H.
 Bernese Jura (Switzerland).—Hug, O.
 Bernissart (Hainaut).—Cornet, J., &c. ; Seward, A. C. ; Van den Broeck, E.
 Beryl.—Kunz, G. F. ; Melzer, G.
 Bessèges (Gard).—Bertrand, M.
 Bessers (Ottawa).—Dawson, Sir J. W.
 Betharram Grotto (Pyrenees).—Ritter, —.
Betula.—Andersson, G. ; Hague, A., &c.
 Bendantite.—Hartley, E. G. J. ; Miers, H. A. ; Prior, G. T.
 Beverley (Mass).—Wright, F. E.
 BEYRICH, H. E.—Anon. 2 ; Hauchecorne, W.
Beyrichia.—Grabau, A. W. ; Guerich, G.
Beyrichocrinus.—Bather, F. A.
 Bhavani, R. (Madras).—Holland, T. H.
 Biandronno (Lombardy).—Mariani, E.
 Bienne, Lake (Bern).—Schardt, H.
 Bierbele (Finland).—Meunier, S.
Bigennerina.—Chapman, F. ; Tornquist, A.
Billingsella.—Hague, A., &c.
 BINET, A.—Brégy, —.
 Binn Valley (Valais).—Solly, R. H. ; Weinschenk, E.
 Biogenetic laws, palæontology &. — Smith, J. P.
 Biotite-gneiss.—Holland, T. H.
 Birchington (Kent).—Rowe, A. W.
 Birds, New Zealand.—Henry, R.
 —, Quaternary.—Portis, A. ; Stirling, E. C., &c.
 —, Tertiary.—Eastman, C. R. ; Lucas, F. A. ; Mercat, A.
Birkenia.—Traquair, R. H.
 Birefracton in thin rock-sections. — Robinson, H. H.
 Bisbee (Ariz.).—Hovey, E. O.
 Bischoff, Mt. (Tasmania).—Fireks, W. von ; Klockmann, —.
 Bischofszell (Thurgau).—Gutzwiller, A.
 Bison.—Lydekker, R.
Bittium.—Sokolov, N.
 Black Hills (Dakota).—Barrell, R. W. ; Darton, N. H. ; Eastman, C. R. ; Irving, J. D. ; Ward, L. F., &c.
 Black Sea deposits.—Murray, Sir J.
 Blackstone (Queensl.).—Bulman, H. F.
 Blanc, Cap (Algeria).—Duparc, L., &c.
 Blanc, Mt. (France).—Bertrand, M., &c.
 Blanco formation.—Matthew, W. D.
 Blanz (Saône-et-Loire).—Zeiller, R.
 Blaye (Guienne).—Engerrand, —.
 Blende.—Achiardi, G. d'.
 Bléville (Normandy).—Leprévost, E.
 Bloemfontein (O. R. Colony).—Skinner, B. M.
 Blue Mound (Wisc.).—Hubbard, G. D.
 Bockswieser (Harz).—Maier, E.
 Bodö (Norway).—Holmquist, P. J.
 Bog Bay (Ont.).—McKellar, P.
 Bogát (Transylvania).—Koch, A.
 Bogenne (Denmark).—Madsen, V.
 Bogs, Ireland.—Bjerling, P. R. ; Johnson, T.
 —, Palæozoic.—Renault, B.
 —. *See also* Peat, &c.
 Bohemia.—Bather, F. A. ; Frech, F. ; Gæbert, C. ; Hibsch, J. E. ; Ehlich, H. ; Pompeckj, J. F. ; Redlich, K. A. ; Schubert, R. J. ; Suess, F. E. ; Uhlig, V. ; Zahálka, C. ; Zelizko, J. V.
Bohemocrinus.—Bather, F. A.
 Bokhara (Turkestan).—Boehm, G. ; Rickmers, W. R.
Bolbozeo.—Canavari, M.
 Bolivia (S. Am.).—Pöhlmann, R. ; Sundt, L.

- Bolivia*.—Chapman, F.
Bolivina.—Chapman, F.; Reade, T. M.
 Bombay (India).—Walton, R.
 Bone-caves, Uphill.—Bolton, H.
 Bonifacio (Corsica).—Ferton, C.
 Bonneville, ancient lake (Utah).—Tallmage, J. E.
 Bopfinger (Württ.).—Koken, E.
 Boracic acid in soils.—Rasmakers, D.
 Boracite.—Rinne, F.
 Bordeaux (Guienne).—Billiot, J. T.; Degrange-Touzin, —.
 Borgo (Finland).—Meunier, S.
 Borings, Dresden.—Nessig, R.
 —, England (S.).—Martin, E. A.; Slater, P. L.
 —, France (N.).—Gosselet, J.; Jukes-Browne, A. J.
 —, Hesse.—Wittich, E.
 —, Lille.—Pesez, —, &c.
 —, London.—Martin, E. A.; Slater, P. L.
 —, Michigan.—Lane, A. C., &c.
 —, New South Wales.—McLachlan, D. C.; Slee, W. H. J.
 —, New York.—Prosser, C. S.
 —, Ostend.—Leriche, M.
 —, Prussia.—Jentzsch, A.; Maas, G.; Wahnschaffe, F.; Zeise, O.
 —. See also Artesian wells.
 Borneo.—Krause, P. G.; Vogel, F.
 Bornholm (Baltic).—Greenwall, K. A.
 Borolanite.—Teall, J. J. H.
 Borovich (Novgorod Gov.).—Zemchenski, P.
 Borrowdale Series.—Harker, A.
Borsonia.—Ortmann, A. E.
 Bos.—Duns, —; Scriven, R. G.
 Bosnia.—Engelhardt, H.; Katzer, F.; Pöed, T.
 Bostonite.—Flett, J. S.
 Botany, fossil.—Scott, D. H. See also Plants.
Bothrodendron.—Nathorst, A. G.
Bothus.—Munthe, H.
Botryllopora.—Grabau, A. W.
Botryopteris.—Scott, D. H.
 Boudry (Neuchâtel).—Schardt, H.
 Bouffionx (Hainaut).—Dewalque, G.
 Boulder City (Colo.).—Lee, W. T.
 Boulders, Bornholm.—Greenwall, K. A.
 —, France (S.).—Trutat, A.
 —, Indian striated.—Emerson, B. K.
 —, New South Wales striated.—David, T. W. E.
 —, Yorkshire.—Stather, J. W.
 —. See also Glacial deposits.
 Boulogne-sur-Mer (Pas-de-Calais).—Breuil, —.
 Boulonnais (France).—Gosselet, J., &c.; Sauvage, H. E.
Bourgueticrinus.—Oppenheim, P.; Rowe, A. W., &c.
 Bovey Tracey (Devon).—Woodward, H. B., &c.
 Boxmoor (Herts).—Green, U.
 Bra (Piedmont).—Capeder, G.
 Brachiopoda, Cambrian.—Guerich, G.; Matthew, G. F.; Redlich, K.; Toll, Baron E. von.
 Brachiopoda, Carboniferous.—Guerich, G.; Hague, A., &c.; Schellwien, E.; Taff, J. A.; Weller, S.; Wolterstorff, W.
 —, Cretaceous.—Harris, G. D.; Jukes-Browne, A. J.; Popovici-Hatzeg, V.; Rowe, A. W., &c.; Simionescu, J.; Whiteaves, J. F.
 —, Devonian.—Beushausen, L.; Forir, H.; Grabau, A. W.; Hague, A., &c.; Kayser, E.; Lotz, H.; Rowley, R. R.; Schellwien, E.; Scupin, H.; Simoes, G.
 —, Jurassic.—Bornhardt, W., &c.; Bose, E., &c.; Buckman, S. S.; Burckhardt, C.; Loriol, P. de; Remes, M.; Sehle, U.; Upton, E.
 —, Permian.—Herrick, C. L.
 —, Permo-Carboniferous.—Diener, C.; Enderle, J.
 —, Quaternary.—Knipovich, N.; Van Ertborn, Baron O.
 —, Silurian.—Ami, H. M.; Huene, F. von; Taff, J. A.; Wysogorski, J.
 —, Tertiary.—Dautzenberg, P., &c.; Tate, R.
 —, Triassic.—Bittner, A.; Koken, E.; Tommasi, A.; Tornquist, A.; Vincent, E.
 Bracquignies (Hainaut).—Cornet, J., &c.
 Bradford district.—See British Association.
Bradylemur.—Grandidier, G.
Brahmacrinus.—Sollas, W. J.
Brancoceras.—Guerich, G.
 Brandenburg (Prussia).—Berendt, G.; Jäkel, O.; Korn, J.; Krusch, P.; Michael, R.; Nehring, A.; Schroeder, H.; Wahnschaffe, F.
 Bras d'Or Lakes (N.S.).—Woodman, J. E.
 Bray (Wicklow).—Cole, G. A. J., &c.; Sollas, W. J.
 Bray, Pays-de- (France).—Meunier-Chalmas, —.
 Brazil.—Branner, J. C.; Derby, O. A.; Doll, E.; Kayser, E.; Hussak, E.; Scott, H. K.
 Brazza I. (Dalmatia).—Søhle, U.
 Breccias, Ariège Secondary calcareous.—Lacroix, A.
 —, Icelandic glacial.—Pjetursson, H.
 Brescia (Venetia).—Bettoni, A.
 Bressuire (Deux Sèvres).—Michel-Lévy, A., &c.
 Breton, Cape (Nova Scotia).—Fletcher, H.; Matthew, G. F.
 Briançonnais (France).—Kilian, W.; Termier, P.
 Brianza (Lombardy).—Mariani, E.
 Brickearths, Beauvais, &c.—Breuil, —.
 —, Brussels.—Rutot, A.
 —, California.—Ries, H.
 —, Liévin.—Rutot, A.
 —, Yorkshire.—Elsden, J. V.; Greenwell, A.

- Brickenden Green (Herts).—Coomára-Swámy, A. K.
 Bridger formation.—Matthew, W. D.
 Brighton (Sussex).—Chapman, F.; Rowe, A. W., &c.
 Brione Mt. (Tyrol).—Schaffer, F.
 Brioude (Haute Loire).—Giraud, J.
Brissopneustes.—Arnauld, H.
 Bristol (Somerset).—Wickes, W. H.
 Brittany (France).—Kerforne, F.; Lechartier, G.
 Britholite.—Gaubert, P.
 British Association, Bradford.—Anon. 48-50; Hyne, C. J. C.; Sollas, W. J.; Traquair, R. H.; Wilson, J. E.
 ———, Dover. — Geikie, Sir A.; Stirrup, M.
 ——— Columbia.—Ami, H. M.; Jordan, P.; Lakes, A.; Logan, W. N.; Matthew, G. F.; Monckton, G. F.; Smith, H. J.; Vaux, G., &c.; Whiteaves, J. F.; Woodward, H.
 ——— East Africa.—Mackinder, H. J.
 ——— Guiana.—Harrison, J. B., &c.; Lungwitz, E. E.
 ——— Isles, submerged terraces. — Hull, E.
 ———, surface-configuration. — Avebury, Lord.
 ———. See also England, &c.
 ——— Museum.—See Museums.
 ——— New Guinea.—Haddon, A. C.
Brittsia.—White, D.
 BREGGER, W. C.—Winchell, N. H.
 Broken Hill (N.S.W.).—Beck, R.
 BRONGNIART, C. J. E.—Anon. 3; Whitaker, W.
Brontosaurus.—Osborn, H. F.
 Brookite.—Brugnatelli, L.
 BROTHERS, H.—Anon. 4.
 Bru (Liège).—Lambert, G.
 Brunswick (Germany).—Philippi, E.; Schlueter, C.; Wollemann, A.
 Brussels (Belgium).—Delheid, E.; Rutot, A.
 Brusselian.—Limburg-Stirum, A. de; Van Ertborn, Baron O.; Velge, G.
 Bryozoa, Carboniferous.—Rogers, A. F.
 ———, Cretaceous.—Canu, F.; Gregory, J. W.; Schardt, H.
 ———, Devonian.—Grabau, A. W.
 ———, Silurian.—Ami, H. M.
 ———, Tertiary.—Neviani, A.; Ortmann, A. E.
 Bua I. (Dalmatia).—Kerner, F. von.
Bubabus.—Boule, M.
Bucania.—Yakovlev, N.
Buccinanops.—Harris, G. D.
Buccinum.—Ortmann, A. E.; Sokolov, N.
Buchiceras.—Cragin, F. W.
Buchiola.—Beushausen, L.
Buchites.—Waagen, L.
 Buckinghamshire.—Jukes-Browne, A. J.
 BUCKMAN types.—Buckman, S. S.
 Budesheim (Eifel).—Beushausen, L.
 Building-stones, Caen, plain of.—Anon. 61.
 Building-stones, Kansas.—Haworth, E.
 ———, Liverpool.—Aldridge, E. C.; Street, A. W.
 ———, Norway.—Greenwell, A.
 ———, properties of and determination.—Buckley, E. R.; Leppla, A.
 ———, United States.—Day, W. C.
 ———, Wisconsin.—Buckley, E. R.
 ———, Yorkshire.—Elsden, J. V., &c.
 Bulth (Brecknock).—Elles, G. L.; Wood, E. M. R.
 Bükk Mts. (Hungary).—Kocsis, J.
 Bulgaria.—Toula, F.
Bulimina.—Reade, T. M.
 BUNSEN, R. W.—Anon. 5; Roscoe, Sir H.; Voit, C. von; Whitaker, W.
 Bunter marls, Württemberg.—Wuefling, E. A.
 ——— pebble-beds.—Bonney, T. G.
 ——— sandstone.—Seeley, H. G.; Wedd, C. B.
 Burdigalien, Egypt.—Andrews, C. W.
 Burlington Limestone.—Rowley, R. R.
 Burma.—Datta, P. N.; Middlemiss, C. S.; Stonier, G. A.
 Buru I. (D. E. I.).—Schroeder van der Kolk, J. L. C.
 Bussang (Vosges).—Barthélemy, F.
 Butte (Mont.).—Lakes, A.; Weed, W. H.
Byronia.—Matthew, G. F.
Bythinella.—Miller, K.
Bythocypris.—Chapman, F.
 Caban Group.—Lapworth, H.
 Cabasite.—Rimatori, C.
 Cache à la Poudre Valley (Utah).—Means, T. H.
 Cadeby Colliery, Doncaster.—Anon. 57.
Cadoceras.—Pompeckj, J. F.
 Cadore (Carnic Alps).—Geyer, G.
Cæcilianella.—Miller, K.
 Caen (Normandy).—Anon. 61.
 Cahors (Lot).—Michel-Lévy, A., &c.
 Calabria (Italy).—Stefano, G. de; Ugo-
 lini, P. R.
Calamites.—Bornhardt, W., &c.; Grand-
 Eury, C.; Scott, D. H.
Calamodendron.—Scott, D. H.
Calamophyllia.—Gregory, J. W.
Calamophyllites.—Zeller, R.
Calamopitys & *Calamostachys*.—Scott, D. H.
 Calaveras skull.—Blake, W. P.
 Calaverite-like mineral.—Knight, F. C.
Calcarina.—Chapman, F.
 Calciferous sandstone.—Seward, A. C.
 Calcite.—Boeris, G.; Fantappiè, L.; Farrington, O. C.; Hovey, E. O.; Knett, J.; Palache, C.; Penfield, S. L., &c.; Polak, J. M.; Rogers, A. F.; Weibull, M.
 Calcutta earthquake.—Oldham, R. D.
 ———, silting up.—Forlong, J. G. R.
 Caldas, Serra de (Brazil).—Hussak, E.
 Caledonite.—Farrington, O. C.
Caleidocrinus.—Bather, F. A.
 California (U.S.A.).—Blake, W. P.; Claypole, E. W.; Collier, J. H., jun.;

- Cooper, A. S.; Hershey, O. H.; Lakes, A.; Perrine, C. D.; Radford, G. K.; Ries, H.; Smith, W. S. T.; Walcott, C. D., &c.; Watts, W. L.; Yale, C.
- California (U.S.A.). *See also* Cripple Creek, Gold, &c.
- Calla*.—Andersson, G.
- Callabonna Lake (S. Austr.).—Stirling, E. C., &c.
- Callianassa*.—Woodward, H.
- Callipteridium*.—White, D.
- Callista*.—Rovert, G.
- Callistostoma*.—Ortmann, A. E.
- Callopæcia*.—Lambe, L. M.
- Calpiocrinus*.—Bather, F. A.
- Calvados (Normandy).—Bigot, A.; Douvillé, H.; Skrodzki, J.
- Calymene*.—Bergeron, J.
- Calymmatotheca*.—Zeiller, R.
- Calyptræa*.—Blanckenhorn, M.; Bæckh, H.
- Camarella*.—Huene, F. von.
- Camarophoria*.—Diener, C.; Enderle, J.; Hague, A., &c.
- Camarothæchia*.—Grabau, A. W.; Hague, A., &c.; Rowley, R. R.
- Camborne (Cornwall).—Stephens, F. J.
- Cambrian, America (N.).—Walcott, C. D.
- , Australia (S.).—Clark, E. V.
- , Belgium.—Lohest, M., &c.; Malaise, C.
- , Bohemia.—Pompeckj, J. F.
- , British Columbia.—Ami, H. M.; Matthew, G. F.
- , Colorado.—Crosby, W. O.
- , Malvern.—Groom, T. T.
- , Massachusetts.—Burr, H. T.
- , Meteorology.—Sardeson, F. W.
- , New York.—Clarke, J. M., &c.
- , Newfoundland.—Ami, H. M.; Matthew, G. F.
- , Nova Scotia.—Matthew, G. F.
- , Rhenish Prussia.—Holzapfel, E.
- , Salt Range.—Redlich, K.
- , Siberia.—Toll, Baron E. von.
- , Wicklow.—Cole, G. A. J., &c.
- , Yellowstone Park.—Hague, A., &c.
- Cambridgeshire.—Elsden, J. V., &c.; Jukes-Browne, A. J.; Reed, F. R. C.; Weed, C. B.
- Cambro-Silurian, Ontario.—Ami, H. M.
- Camburg (Meiningen).—Schuetze, E.
- Camerino (Marches, Italy).—Mariani, M.
- CAMPBELL, W. Y.—Whitaker, W.
- Campine (Limbourg).—Mourlon, M.
- Campinian.—Van Ertborn, Baron O.
- Camptonectes*.—Hague, A., &c.; Harris, G. D.
- Camptonite.—Flett, J. S.; Gregory, J. W.
- Campulung (Rumania).—Popovici-Hatzeg, V.
- Cana (Colombia).—Woakes, E. R.
- Canada, Carboniferous.—Ami, H. M.
- Canada, geological nomenclature.—Ells, R. W.; Fletcher, H.
- , Geological Survey.—Dawson, G. M.
- , geology, 1899.—Ami, H. M.
- , mineral statistics.—Ingall, E. D.; Parker, E. W.
- , Surveys & Museums.—Walker, B. E.
- , *See also* Quebec, America (N.), &c.
- (N. W.).—Tornquist, A.; Woodward, H.
- , *See also* Yukon, &c.
- Canarium*.—Newton, R. B.
- Cancellaria*.—Harris, G. D.
- Cancer*.—Packard, A. S.
- Canidae.—Wortman, J. L., &c.
- Cantal (France).—Boule, M., &c.; Flèche, P.
- Cape Colony.—Dunn, E. J.; Juritz, C. F.; Seeley, H. G.
- , — to Cairo.—Grogan, E. S.
- Capiluna*.—Newton, R. B.
- Caprina*.—Longhi, P.
- Caprolagus*.—Major, C. I. F.
- Carboniferous, Ardennes.—Anon. 66.
- , Belgium.—Dorlodot, H. de.
- , China.—Abbado, M.
- , conglomerate, Belgium.—Cornet, J.
- , Ullswater.—Oldham, R. D.
- , Heraclea.—Zeiller, R.
- , Igli.—Ficheur, E.
- , Indian Terr.—Tuff, J. A.
- , island.—Martin, E. A.
- , Kansas.—Beede, J. W.; Keyes, C. R.; Rogers, A. F.; Williston, S. W.
- , Limestone, Derbyshire.—Barnes, J., &c.
- , —, Lens.—Laffite, H.
- , Louisiana (Mo.).—Rowley, R. R.
- , Magdeburg.—Wolterstorff, W.
- , Man (I. of).—Lamplugh, G. W.
- , Missouri.—Keyes, C. R.; Rogers, A. F.; Rowley, R. R.; White, D.
- , Namur.—Dorlodot, H. de.
- , Nassau.—Kayser, C.
- , nodules.—Bertrand, C. E.
- , Nova Scotia.—Ami, H. M.
- , Pas-de-Calais.—Laffite, H.
- , Rhode I.—Packard, A. S.; Shaler, N. S., &c.
- , Russia.—Yakovlev, N.
- , Sardinia.—Pampaloni, L.
- , Sauerland.—Denckmann, A., &c.
- , Saxony.—Beyschlag, F., &c.
- , Scotland.—Brown, M. W.
- , sea-beach.—Barnes, J., &c.
- , Shropshire.—Clarke, W. J.
- , Silesia.—Gæbler, C.; Guericke, G.; Scupin, H.
- , Staffordshire.—Geikie, Sir A.; Gibson, W.; Ward, J.
- , United States (Western).—Bain, H. F., &c.

- Carboniferous, Wales (N.).—Morton, G. H.
 —, — (S.).—Geikie, Sir A.; Strahan, A.
 —, Yellowstone National Park.—Hague, A., &c.
 —, Yorkshire.—Wellburn, E. D.; Woodward, A. S.
 — zones.—Garwood, E. J.
Carcharodon.—Woodward, A. S.
Cardiaster.—Jukes - Browne, A. J.; Schlueter, C.
Cardiocarpon.—White, D.
Cardioceras.—Burckhardt, C.
Cardiola.—Grabau, A. W.
 — zone.—Canavari, M.
Cardiopteris.—Guerich, G.; Zeiller, R.
Cardita.—Burckhardt, C.; Newton, R. B.; Oppenheim, P.; Rovert, G.; Schaffer, F.; Wollemann, A.
Cardium.—Angelis d'Ossat, G. de; Bœckh, H.; Bornhardt, W., &c.; Harris, G. D.; Jukes-Browne, A. J.; Newton, R. B.; Rovert, G.; Sokolov, N.; Whiteaves, J. F.
Carex.—Andersson, G.
Carnifer.—Miller, K.
Carinthia (Austria).—Redlich, K. A.; Tommasi, A.
 Carnic Alps.—Geyer, G.
Carniola (Austria).—Kossmatt, F.; Teller, F.
 Carnotite.—Hillebrand, W. F., &c.
 Carolina (N.).—Nitze, H. B. C.; Pratt, J. H.
 — (S.).—Nitze, H. B. C.
 Carpathian Mts.—Abel, O.; Athanasiü, S.; Cole, G. A. J.; Mrazec, L.; Nopcsa, F., jun.; Popovići - Hatzeg, V.; Uhlig, V.
Carpenteria.—Chapman, F.
Carpiliopsis.—Segerberg, K. O.
Carpites.—Hague, A., &c.
Carpolithes.—Nathorst, A. G.; Ward, L. F.
 Carrara (Tuscany).—Achiardi, G. d'.
 Carribou, Mt. (Id.).—Kirby, E. B.
Carychium.—Miller, K.
 Caspian Miocene.—Andrusov, N. I.
 Cassel (Hesse).—Beyschlag, F.; Blanckenhorn, M.; Linstow, O. von.
Cassia.—Newton, R. B.
 Cassian zone, Tyrol.—Gordon, M. M. O.
Cassianastræa.—Tornquist, A.
Cassianella.—Bittner, A.
Cassidulina.—Reade, T. M.
Cassis.—Rovert, G.; Tate, R.
 Castanite.—Darapski, L.
 Castellamonte (Piedmont).—Capedero, G.
 Castellarquato (Emilia).—Levi, T.
 Castleton (Derby).—Stokes, A.
Castor.—Bosco, C.
 Catalonia (Spain).—Almera, J.; Barrois, C.; Bergeron, J.; Bofill, A.; Calderon, S.; Depéret, C.; Dollfus, G. F.; Fonty-Sagué, N.; Kilian, W.; Stuart-Menteath, P. W.; Vidal, L. M.; Yarza, R. A. de.
Catanea.—Hague, A., &c.
 Caterham (Surrey).—Whitaker, W.
Catopygus.—Jukes - Browne, A. J.; Lorient, P. de.
 Catria, Mt. (Umbria).—Morena, T.
 Caucasus.—Dannenberg, A.; Maueroher, J.
 'Causses' district (France).—Martel, E. A.
 Cavan (Ireland).—McHenry, A., &c.
Cavaria.—Gregory, J. W.
 Cavern-earth, nitrates.—Hess, W. N.
 Caverns & Caves, &c.
 —, Algiers bone-cave.—Ficheur, E., &c.
 —, America (N.).—Hovey, H. C.; Owen, L. A.; Van Epps, P. M.
 —, Austria.—Fuegger, E.
 —, Côte d'Or.—Galimard, J.
 —, Dordogne.—Lalande, P.
 —, Doubs.—Anon. 37.
 —, France.—Viré, A.; see also Gard, &c.
 —, freezing ('Glacières').—Balch, E. S.
 —, French Guinea.—Breuil, —; Hamy, E. T.
 —, Gard.—Faucher, P.; Martel, E. A.; Mazauric, F.
 —, Ha Ha Tonka (Mo.).—Owen, L. A.
 —, Hautes-Pyrénées.—Briet, L.; Ritter, —; Siegmeth, C.
 —, Hungary.—Siegmeth, C.
 —, Isère.—Décombaz, O.
 —, Istria.—Anon. 36.
 —, Jura.—Fournier, E.
 —, Karst.—Moser, L. K.
 —, Lot.—Martel, E. A.
 —, Mammoth (Ky.).—Hovey, H. C.
 —, Moravia.—Remes, M.
 —, Namur.—Van den Broeck, E.
 —, New South Wales.—Trickett, O.
 —, Patagonia.—Ameghino, F.; Woodward, A. S.
 —, Sarthe.—Monmarché, M.
 —, science of.—Martel, E. A.
 —, Somme.—Danicourt, E.
 —, Sorbonne Congress.—Anon. 38.
 —, Spain.—Font-y-Sagué, N.; Llorente, T.
 —, Wales (N.).—Pollen, G. C. H.
 —, Water &—Rahir, E.
Cea.—Canu, F.
 Cedarite.—Klebs, R.
 Cedrone (Umbria).—Ugolini, R.
Celastrophyllum.—Ward, L. F., &c.
Celastrus.—Hague, A., &c.
 Celebes Is. (D. E. I.).—Anon. 47;
 —, Buecking, H.; Carthaus, E.; Rinne, F.; Webber, M.; Wichmann, A.
 Celestite.—Schmidt, C.; Stirrup, M.
Cellulipora.—Gregory, J. W.
Celtites.—Mariani, E.
Cenococcum.—Andersson, G.
Cenosphæra.—Holmes, W. M.
Centrastræa.—Gregory, J. W.; Soehle, U.

- Centrogonia*.—Cossmann, M.
Centronella.—Grabau, A. W.; Rowley, R. R.
Cephalaspis.—Traquair, R. H.
Cephalopoda, British Museum.—Crick, G. C.
 —, Cambrian.—Hague, A., &c.
 —, Carboniferous.—Crick, G. C.; Hague, A., &c.; Reed, F. R. C.; Wolterstorff, W.; Yakovlev, N.
 —, Cretaceous.—Blanckenhorn, M.; Burckhardt, C.; Cragin, F. W.; Grossouvre, A. de; Harris, G. D.; Jukes-Browne, A. J.; Kilian, W.; Popovič-Hatzeg, V.; Schlueter, C.; Simionescu, J.; Toulou, F.; Whiteaves, J. F.
 —, Devonian.—Crick, G. C.; Forir, H.; Grabau, A. W.; Guerich, G.; Kayser, E.; Maier, E.
 —, Jurassic.—Bellini, R.; Bonarelli, G.; Burckhardt, C.; Canavari, M.; Crick, G. C.; Cumming, L.; Franchi, S.; Fucini, A.; Hague, A., &c.; Holland, F.; Hug, O.; Lorient, P. de; Philippi, E.; Pompeckj, J. F.; Rothpletz, A.; Söhlé, U.; Stuebin, K.
 —, Permian.—Herrick, C. L.
 —, Permian-Carboniferous.—Enderle, J.
 —, Silurian.—Ami, H. M.
 —, Tertiary.—Mayer-Eymar, C.; Vincent, E.
 —, Triassic.—Bittner, A.; Diener, C.; Mariani, F.; Mojsisovics, E. von; Nöthing, F.; Tornquist, A.; Waagen, L.
Cephalotaxopsis.—Ward, L. F.
Ceratites.—Bofill, A.; Diener, C.; Nöthing, F.; Philippi, E.; Tornquist, A.
Ceratophyllum.—Andersson, G.
Ceratopora.—Grabau, A. W.
Cercomya.—Whiteaves, J. F.
Cerite.—Nordenskjöld, Baron A. E.
Ceritella.—Lorient, P. de; Böhm, J.
Cerithiella.—Cossmann, M.
Cerithium.—Bauer, K.; Böhm, J.; Cossmann, M.; Lorient, P. de; Oppenheim, P.; Sokolov, N.; Spandel, E.; Tate, R.; Vogel, F.; Wollelmann, A.
 Cerium-earth. —Hussak, E., &c.
 Cernotin (Moravia).—Remes, M.
Ceromya.—Bornhardt, W., &c.
Cerurus.—Sheppard, T.; Duns, —; Harmer, S. F.; Reichenau, W. von.
 Ceruleite.—Dufet, H.
 Cerussite.—Riva, C.; Millosevich, F.
Cervus.—Harmer, S. F.
 Cetacea, Tertiary.—Böckh, H.; Capellini, G.; Koch, A.; Ugolini, P. R.
Cetastrus.—Hollick, A.
Cetiosaurus.—Osborn, H. F.
 Ceylon.—Coomára-Swamy, A. K.; Goldschmidt, V., &c.; Gruenling, F.; Melzer, G.; Weinschenk, E.; Worobiev, V. von.
 Chablais (Savoy).—Renevier, E., &c.
Chæonocardia.—Guerich, G.
 Chalcolamprite.—Gaubert, P.
 Chalcopyrite.—Riva, C.
 Chalk, Bavaria.—Inkeller, H.
 —, Bohemia.—Zahalka, C.; Zelizko, J. V.
 —, cliff falls, Havre, &c.—Leprévost, E.; Savalle, E.
 —, England.—Brown, G. F.; Jones, T. R.; Jukes-Browne, A. J.; Martin, E. A.; Rowe, A. W., &c.
 —, fishes.—Woodward, A. S.
 —, Flamborough buried valley.—Stather, J. W.
 —, Harz, &c.—Mueller, G.
 —, Ireland.—Elsden, J. V., &c.
 —, Kent.—Dibley, E. G.; Rowe, A. W., &c.
 —, Picardy phosphatic.—Gosselet, J.
 —, Saxony.—Petrascheck, W.
 —, Scandinavia.—Segerberg, K. O.
 —, Surrey.—Dibley, E. G.; Holmes, W. M.
 —, Sussex.—Rowe, A. W., &c.; Woodward, A. S.
 —, Tuscany.—Achiardi, G. d.
 —, waters.—Thresh, J. C.
 —, Yorkshire.—Mortimer, J. R.; Slade, H. P.
 —, zones.—Dibley, E. G.
 Chalk-Marl.—Jones, T. R.
Chama.—Roverto, G.
 Champlain Valley (N.Y.).—White, T. G.
 Channel, English.—See Dover, Straits of, &c.
 —, Tunnel.—Dawkins, W. B.
 Channel Is.—Parkinson, J.
 Chapman Sandstone.—Williams, H. S.
 Charente (France).—Glaudeand, P.
 Charnockite.—Holland, T. H.
 Charnwood Forest (Leicester).—Fox-Strangways, C., &c.
 Chattanooga district (Tenn., &c.).—Hayes, C. W.
Cheirostrobus.—Scott, D. H.
 Chelonia, Cretaceous.—Parmenter, C. S.
 —, evolution of.—Wieland, G. R.
 —, Quaternary.—Moreno, F. P., &c.
 —, Tertiary.—Andrews, C. W.; Delheid, E.
 Chemiré-en-Charnie (Sarthe).—Ehlert, D. P.
 Chert, oolitic.—Wilson, T.
 Chichester (Sussex).—Mill, H. R.
 Chickerell (Dorset).—Lydekker, R.
Chicoreus.—Newton, R. B.
 Chile (S. Am.).—Burckhardt, C.; Darapski, L.; Hermann, A.; Kaiser, E.; Machado, M. R.; Wolff, F. von.
 —, Andes.—Bonney, T. G.; Burckhardt, C.; Crick, G. C.
Chiloceras.—Guerlich, G.
Chilodontoides.—Cossmann, M.
 Chilpancingo Valley (Mexico).—Ordóñez, E.
 Chimborazo (Ecuador).—Stuebel, A.
 China.—Abbado, M.; Bergeron, J.; Bogdanovich, K.; Cholnoki, E. von;

- Douvillé, H.; Drake, N. F.; Koken, E.; Leclère, A.; Michel-Lévy, A., &c.; Navarra, B.; Richthofen, Baron F. von; Webster, T.; Zeiller, R.
- Chione*.—Rovert, G.
- Chironomus*.—Andersson, G.
- Chisma*.—Gregory, J. W.
- Chlamys*.—Greppin, E.; Newton, R. B.; Rovert, G.
- Chlorastolite.—Kunz, G. F.
- Chondrites*.—Schubert, R. J.; Staub, M.
- Chonetes*.—Diener, C.; Grabau, A. W.; Hague, A., &c.; Herrick, C. L.; Wolterstorff, W.
- Christiania-Fjord (Norway).—Huene, F. von; Winchell, N. H.
- Christnaas I. (Indian Ocean).—Andrews, C. W., &c.; Newton, R. B.
- Chrome-iron-ore, Carolina (N.).—Pratt, J. H.
- , New York, &c.—Vogt, J. H. L.
- , Styria.—Ryba, F.
- Chrysoberyl.—Goldschmidt, V., &c.; Melzer, G.
- Chrysoprase.—Kunz, G. F.
- Chrysostoma*.—Oppenheim, P.
- Chuaria*.—Walcott, C. D.
- Chudleigh (Devon).—Woodward, H. B.; &c.
- Church Stretton (Salop).—Callaway, C.
- Cicerocrinus*.—Sollas, W. J.
- Cidaris*.—Arnaud, H.; Hesse, E.; Loriol, P. de; Oppenheim, P.; Ortmann, A. E.
- Cimina Mt. (Prov. Rome).—Fantappiè, L.
- Ciminite.—Washington, H. S.
- Cimolichthys*.—Loomis, F. B.
- Cimoliosaurus*.—Knight, W. C.
- Cingularia*.—Scott, D. H.
- Cinnabar.—Carne, J. E.; Hintze, C.
- Cinnamomum*.—Hague, A., &c.; Hollick, A.
- Circe*.—Newton, R. B.
- Circophyllia*.—Oppenheim, P.
- Circuta*.—Andersson, G.
- Cirrus*.—Cossmann, M.
- Cissites*.—Ward, L. F., &c.
- Cissus*.—Hague, A., &c.
- Civitavecchia (Rome).—Neviani, A.
- Cladiscites*.—Mojsisovics, E. von.
- Cladodus*.—Eastman, C. R.; Hay, O. P.
- Cladophlebis*.—Nathorst, A. G.; Seward, A. C.; Ward, L. F., &c.
- Cladophyllia*.—Bornhardt, W., &c.
- Cladopora*.—Lambe, L. M.
- Claiborne Beds.—Harris, G. D.
- Clanculus*.—Newton, R. B.
- Clapsavon, Mt. (Carinthia).—Tommasi, A.
- Classification, Carboniferous.—Ami, H. M.
- , rock.—See Rocks, &c.
- Clathurella*.—Cossmann, M.; Murdoch, R.
- Clausa*.—Gregory, J. W.
- Clausilia*.—Miller, K.
- Clausthal (Harz).—Beck, R.
- Clavagella*.—Rovert, G.
- Clavatula*.—Cossmann, M.
- Clavier (Liège).—Destinez, P.
- Clavulina*-beds, Tyrol.—Schubert, R. J.
- Clays, Alabama & California.—Ries, H.
- , constitution.—Petermann, —, &c.
- , current-bedded.—Seeley, H. G.
- , Diou.—Anon. 59.
- , glacial Russian.—Glinka, K.
- , Hertfordshire.—Lones, T. E.
- , Hesbayan.—Cornet, J.; Forir, H.
- , Hudson R. Valley (lower).—Jones, C. C.
- , Long I.—Merrill, F. J. H.
- , Louisiana.—Ries, H.
- , Nord.—Desailly, L.
- , red alluvial.—Meunier, S.
- , suspension in water.—Thoulet, J.
- , United States.—Middleton, J.
- , Yorkshire.—Greenwell, A.
- Cleavage, mineral.—Daly, R. A.
- , Werfen Shales.—Fuchs, T.
- Clementia*.—Bauer, K.
- Cleoniceras*.—Simionescu, J.
- Clermont-Ferrand (Auvergne).—Michel-Lévy, A., &c.
- Cleveite.—Nordenskjöld, Baron A. E.
- Cliff-falls, Normandy.—Leprévost, E.
- Climacograptus*.—Guerich, G.; Hall, T. S.; Lapworth, H.
- Climates, geological.—Chamberlin, T. C.; Harmer, F. W.; Manson, M., &c.
- Climatius*.—Fox, H.
- Clinopora*.—Gregory, J. W.
- Ctionites*.—Mojsisovics, E. von.
- Cliothyris* & *Clisiophyllum*.—Hague, A., &c.
- Clonograptus*.—Nilsson, A.
- Clyde estuary (Scotland).—Knight, G. A. F.; Robertson, —.
- Clydonautilus*.—Mojsisovics, E. von.
- Clypeaster*.—Enderle, J.; Gregory, J. W.; Hesse, E.
- Clypeina*.—Gregory, J. W.
- Coal, Africa (S.), Dwyka.—Dunn, E. J.; see also Natal, &c.
- , Alaska.—Packard, W.
- , Australia (W.).—Maitland, A. G.
- , bacteria.—Renault, B.
- , Bohemia.—Eichleiter, C. F.
- , Bosnia.—Pæd, T.
- , brown.—Grand'Eury, F. C.
- , Canada.—Bailey, L. W.; Ingall, E. D.
- , chemical classification of.—Seyler, C. A.
- , — composition.—Lecocq, E.
- , China.—Drake, N. F.; Navarra, B.; Webster, T.
- , Colorado.—Lakes, A.
- , Doncaster.—Anon. 57.
- , Herzegovina.—Bittner, A.; Pæd, T.

- Coal, Illinois.—Dinsmore, A.; Ede, J. A.
 —, India.—Mahon, R. H.
 —, Indian Terr.—Taff, J. A.
 —, Indiana.—Ashley, G. H.; Blatchley, W. S.; Fisher, K.; Hall, C. F.
 —, Kansas.—Haworth, E.
 —, Kent.—Dawkins, W. B.; Etheridge, R.; Turner, H. E.
 —, Laramie.—Meade, F.
 —, Madagascar.—Zeiller, R.
 —, Mexico.—Dumble, E. T.; Ochsenius, C.
 —, Michigan.—Lane, A. C.
 —, Narragansett Basin.—Packard, A. S.
 —, New Brunswick.—Bailey, L. W.
 —, New Mexico.—Herrick, C. L., &c.
 —, New South Wales.—Atkinson, A. A.; Bulman, H. F.; Coghlan, T. A.; Pittman, E. F.
 —, Nova Scotia.—Gilpin, E., Jun.
 —, occurrence of.—Brough, B. H.
 —, origin of.—Anon. 44; Grand'Eury, F. C.; Zeiller, R.
 —, Philippines.—Rice, G. D.
 —, Pictou (Colo.).—Meade, F.
 —, plants.—*See* Plants.
 —, Queensland.—Bulman, H. F.; Rands, W. H.
 —, Richmond basin (U.S.A.).—Shaler, N. S., &c.
 —, Russia.—Crankshaw, J.; Nikitin, S.
 —, Saghalien.—Kleye, F. F.
 —, Shropshire.—Clarke, W. J.
 —, Siberia.—Beazley, C. R.
 —, Staffordshire.—Gibson, W.; Ward, J.
 —, stipte in brown.—Grand'Eury, F. C.
 —, structure.—Gresley, W. S.
 —, Swiss lignitic.—Lettsche, E.
 —, Transvaal.—Molengraaff, G. A. F.
 —, United States.—Parker, E. W.
 —, Wales (S.).—Strahan, A.
 —, Westphalia.—Forir, H.
 —, world's output.—Evans, T.
 —, Wyoming.—Williams, G. M.
 —, *See also* Coalfields, &c.
 Coalfields, Africa (S.).—*See* Natal, &c.
 —, Aix-la-Chapelle.—Forir, H.
 —, Assam.—Harris, G. E.
 —, Australia (W.).—Maitland, A. G.
 —, Belgium.—Etheridge, R.; Forir, H.; Joassart, C.
 —, Cape Breton.—Fletcher, H.; Robb, C., &c.
 —, Donetz.—Mauerhofer, J.
 —, Durham.—Anon. 42; Bell, T.
 —, England.—Lozé, E.
 —, formation of.—Grand'Eury, F. C.
 —, Karharbari.—Cadell, H. M.
 —, France.—Bertrand, M.; Coste, —; Etheridge, R.; Fayol, H.; Gosselet, J.; Grand'Eury, F. C.; Leriche, M.; Simon, A.
 —, Holland.—Forir, H.
 Coalfields, Ireland.—Elsden, J. V.; Lozé, E.
 —, Japan.—Anon. 46.
 —, Kaiping.—Webster, T.
 —, Lancashire.—Peace, G.
 —, Leicestershire.—Fox-Strangways, C., &c.
 —, Natal.—Anon. 46; Gray, C. J.; Heslop, W. T.
 —, New South Wales.—Atkinson, A. A.; Bulman, H. F.
 —, New Zealand.—McKay, A.
 —, Northumberland.—Anon. 41.
 —, post-Carboniferous, Anon. 46.
 —, Queensland.—Anon. 46.
 —, Rampur.—Reader, G. F.
 —, Scottish.—Anon. 43, 46; Dron, R. W.; Lozé, E.
 —, Shropshire.—Clarke, W. J.
 —, Sohagpur.—Reader, G. F.
 —, Staffordshire (N.).—Gibson, W.
 —, Tasmania.—Anon. 46.
 —, Transvaal.—Dunn, E. J.
 —, United States.—Packard, A. S.; Parker, E. W.; Taff, J. A.
 —, Wales (S.).—Evans, T.; Geikie, Sir A.; Strahan, A.
 —, Yorkshire.—Wellburn, E. D.
 —, *See also* Coal.
 Coal-Measures.—*See* Carboniferous.
 —, mining.—Anon. 55; Galloway, R. L.
 Coast-weathering.—Dowker, G.; McDakin, S. G.; Wheeler, W. H.; Whitaker, W.
 Cobalt.—Hintze, C.
 Cobar (N.S.W.).—Milne, D.
Coccolithus.—Holmes, W. M.
Coccoliths.—Bæggild, O. B.
Codakia.—Newton, R. B.
Codaster & *Codonites*.—Rowley, R. R.
Cælocentrus.—Koken, E.
Cæloceras.—Bellini, R.
Cælodus.—Williston, S. W.
Cæлома.—Stainier, X., &c.
Cælonautilus.—Yakovlev, N.
Cæloria.—Andrews, C. W., &c.
Cænites.—Lambe, M. L.
 Coke, natural.—Ochsenius, C.; Shaler, N. D., &c.
Coleoides.—Matthew, G. F.
Coleolus.—Grabau, A. W.
 Collie coalfield (W. Austr.).—Maitland, A. G.
 Collingwood coalfields (N.Z.).—McKay, A.
 Coln R. (Gloucester).—Buckman, S. S.
Colobodus.—Angelis d'Ossat, G. de, &c.
 Cologne (Rh. Pr.).—Mehring, H.
 Colombia (S. Am.).—Woakes, E. R.
 Colophorite.—Fantappiè, L.
 Colorado (U.S.A.).—Andrews, C. I.; Chambers, T. C.; Crosby, W. O.; Cross, W.; Hillebrand, W. F., &c.; Lakes, A.; Lee, W. T.; Mathew, E.

- B.; Palache, C.; Palmer, C. S., &c.; Patton, H. B.; Pearce, R.; Penrose, R. A. F., jun.; Rickard, T. A.; Spencer, A. C.; Strong, W. C.; Van Diest, E. C., &c.; Walcott, C. B., &c.; Winslow, A.
- Colorado Cañon (U.S.A.).—Davis, W. M.
- Colouration.—See Minerals, Rocks, &c.
- Columastræa*.—Søhle, U.
- Columbellaria*.—Cossmann, M.
- Columbite.—Milch, L.
- Columnastræa*.—Gregory, J. W.
- Comarum*.—Anderson, G.
- Commentry (Allier).—Fayol, H.; Leriche, M.
- Comoseris*.—Gregory, J. W.
- Compare Robert Valley (Piedmont).—Boeris, G.
- Complexastræa*.—Gregory, J. W.
- Comstock Lode (Nev.).—Lakes, A.
- Conchidium*.—Lotz, H.
- Conchiosaurus*.—Schrammen, A.
- Conchite.—Kelly, A.
- Conchodus*.—Hernes, H.
- Conchophyllum*.—Beyschlag, F., &c.
- Concretions, calcareous.—Bleicher, G., &c.; Hess, W. H.
- , concentric & tubular.—Abbott, G.
- , siliceous calcite.—Penfield, S. L., &c.
- Confervites*.—Toll, Baron E. von.
- Congeria*.—Gorjanovic-Kramberger, K.
- Conglomerates, Carboniferous Belgian.—Cornet, J.
- , Bokhara.—Rickmers, W. R.
- , Buru.—Schroeder van der Kolk, J. L. C.
- Congo R. (Africa).—Hull, E.
- Congress, Geological, Paris (1900).—Barrois, C., &c.; Bergeron, —; Bertrand, M., &c.; Bigot, A., &c.; Boule, M., &c.; Déperet, —; Dollfus, G. F., &c.; Fallot, E.; Gaudry, A.; Gentil, L.; Glangeaud, P.; Gosselet, J., &c.; Grand'Eury, F. C.; Grossouvre, A. de; Haug, E.; Janet, L.; Kilian, W., &c.; Lacroix, A.; Leriche, M.; Lory, P., &c.; Martel, E. A.; Meunier, S.; Michel-Lévy, A., &c.; Meunier-Chalmas, —; Éhlert, D. P.; Philippi, E.; Stefanescu, G.; Termier, P.; Tornquist, A.; Vélain, C., &c.
- Coniopteris* & *Conites*.—Seward, A. C.
- Connecticut (U.S.A.).—Dorsey, C. W., &c.; Emerson, B. K.; Gulliver, F. P.; Westgate, L. G.; Whitney, M.
- Connocates*.—Boule, M.
- Conocardium*.—Grabau, A. W.; Hague, A., &c.; Rowley, R. R.
- Conocephalites*.—Matthews, G. F.; Suess, E.
- Conoclypus*.—Airaghi, C.
- Conocoryphe*.—Matthews, G. F.; Reed, F. R. C.
- Conodonts, Devonian.—Grabau, A. W.
- Conorhis*.—Rovert, G.
- Conostichus*.—White, D.
- CONRAD's types of Syrian fossils.—Beecher, C. E.
- Conshohocken Clay.—Hopkins, T. C.
- Consuelo Cove (Patagonia).—Woodward, A. S.
- Contact-deposits.—Lakes, A.
- Contacts, Pyrenees.—Michel-Lévy, A., &c.
- , Victoria.—Ferguson, W. H.
- Continents, evolution of.—Marr, J. E.; Murray, Sir J.
- Conularia*.—Diener, C.; Grabau, A. W.
- Conus*.—Bauer, K.; Cossmann, M.; Newton, R. B.
- COOKE, S.—Whitaker, W.
- Coolgardie (W. Austr.).—Maitland, A. G.
- COPE, E. D.—Frazer, P.
- Copper, Arizona.—Douglas, J.
- , arsenides.—Koenig, G. A.
- , Australia (W.).—Maitland, A. G.
- , bearing series, magmatic differentiation.—Lane, A. C.
- , Chile.—Darapski, L.; Herrman, A.
- , China.—Navarra, B.
- , glance.—Hintze, C.; Milch, L.
- , Lake Superior.—Woodbridge, D. E.
- , Michigan.—Rominger, C.
- , micro-chemistry of ores.—Lemberg, J.
- , Montana.—Lakes, A.
- , Natal.—Gray, C. J.
- , New South Wales.—Carne, J. E.; Coghlan, T. A.; Dieseldorff, A.; McLachlan, D. C.
- , pyrites, twinning.—Lewis, W. J.
- , Queensland.—Rands, W. H.; Stokes, H. G.
- , Tasmania.—Haber, E.; Muir, J. J.; Sandeman, J. J.
- , Transvaal.—Molengraaff, G. A. F.
- , United States.—Kirchoff, C.
- , Vancouver I.—Brewer, W. M.
- , Wisconsin.—Thomas, K.
- , world's supply.—Hatch, F. H.
- Coquimbo (Chile).—Wolff, F. von.
- Coral-reefs, &c.—Agassiz, A.; Dahl, F.; Goodchild, J. G.; Stephens, T.; Suess, E.
- Coralline, Huntingdonshire, &c.—Wedd, C. B.
- Corals, Cambrian.—Hague, A., &c.; Toll, Baron E. von.
- , Carboniferous.—Hague, A., &c.
- , Cretaceous.—Angelis d'Ossat, G. de, &c.; Bornhardt, W., &c.; Felix, J.; Gregory, J. W.; Lindström, G.; Whiteaves, J. F.
- , Devonian.—Fox, H.; Grabau, A. W.; Gregory, J. W.; Hague, A., &c.; Lambe, L. M.; Rowley, R. R.
- , geological history.—Rowley, W. P.
- , Jurassic.—Gregory, J. W.; Søhle, U.
- , Permo-Carboniferous.—Enderle, J.

- Corals, Silurian.—Ami, H. M.; Etheridge, R., Jun.; Lambé, L. M.; Lindström, G.
- , Tertiary.—Dennant, J.; Gregory, J. W.; Oppenheim, P.
- , Triassic.—Tommasi, A.; Tornquist, A.
- Corax*.—Williston, S. W.
- Corbicella*.—Greppin, E.
- Corbicula*.—Angelis d'Ossat, G. de, &c.
- , *fluminalis*-zone.—Rutot, A.
- Corbis*.—Burckhardt, C.; Oppenheim, P.
- Corbula*.—Bauer, K.; Dautzenberg, P., &c.; Krause, P. G.; Lorient, P. de; Ortmann, A. E.; Sokolov, N.; Vogel, F.
- Cordaianthus*.—Scott, D. H.; White, D.
- Cordaites*.—Abbado, M.; Grand'Eury, F. C.; Guérich, G.; Renault, B.; Scott, D. H.; White, D.
- Cordierite*.—Bucking, H.; Weibull, M.; Winchell, A. N.
- Cordylite*.—Gabert, P.
- Corfe Castle* (Dorset).—Hudleston, W. H., &c.
- Cornulites*.—Grabau, A. W.
- Cornus*.—Hague, A., &c.; Hollick, A.
- Cornwall.—Crick, G. C.; Davison, C.; Fox, H.; Geikie, Sir A.; Lewis, W. J.; Lowe, H. J.; Stephens, F. J.
- Coromandel* (N.Z.).—Maclaren, J. M.
- Corsica*.—Ferton, C.
- Corundum*.—Emerson, W. H.; Gruenling, F.; Guérich, G.; Ingall, E. D.; Kunz, G. F.; Parker, E. W.; Pratt, J. H.; Szadeczki, J.; Vogt, J. H. L.
- Corylus*.—Hague, A., &c.
- Corynepterus*.—Zeiller, R.
- Corynexochus*.—Matthew, G. F.
- Coryphodon*.—Malaquin, A.
- Coscinaæ*.—Andrews, C. W., &c.
- Coscinoecyathus*.—Toll, Baron E. von.
- Cosmetopsis*.—Roerto, G.
- Cosoryx*.—Douglass, E.
- Costa, Sierra (Cal.).—Hershey, O. H.
- Costilla Co. (Colo.).—Van Diest, E. C., &c.
- , meteorite.—Hills, R. C.
- Côte-d'Or (France).—Galimard, J.
- Cotopaxi (Ecuador).—Stuebel, A.
- Cotteswold Hills.—Buckman, S. S.; Upton, C.
- Cottian Alps. *See* Alps.
- Coulsdon (Surrey).—Holmes, W. M.
- Coverack (Cornwall).—Lowe, H. J.
- COZZENS, I.—Vogdes, A. W.
- Crabs, Tertiary.—Stainier, X., &c.
- Crag, East Anglia.—Dalton, W. H.; Harmer, F. W.
- Crania*.—Grabau, A. W.; Hague, A., &c.
- Craniella*.—Grabau, A. W.
- Craniidæ*.—Huene, F. von.
- Craspedophyllum*.—Grabau, A. W.
- Crassatella*.—Harris, G. D.; Ortmann, A. E.; Roerto, G.
- Crassatina*.—Roerto, G.
- Credneria*.—Hague, A., &c.
- Crenaster*.—Oppenheim, P.
- Creodonts.—Wortman, J. L.
- Crepicephalus*.—Hague, A., &c.
- Cressier (Neuchâtel).—Schardt, H.
- Cretaceous, Africa (E.).—Bornhardt, W., &c.
- , Alpes Maritimes.—Riaz, A. de.
- , Andes.—Burckhardt, C.
- , Astrakhan.—Rehbinder, B.
- , Belgium.—Cornet, J., &c.; Seaward, A. C.
- , Bohemia.—Žahálka, C.; Želízko, J. V.
- , Borneo.—Krause, P. G.
- , British Columbia.—Woodward, H.
- , Brunswick.—Schlueter, C.; Wollemann, A.
- , Bulgaria.—Toula, F.
- , Canada.—Woodward, H.
- , Carpathian.—Uhlig, V.
- , Dakota.—Ward, L. F., &c.
- , Egypt.—Blanckenhorn, M.
- , England (S.).—Jukes-Browne, A. J.; Rowe, A. W.
- , France.—Cossmann, M.
- , —. *See also* Provence, &c.
- , Germany (N.).—Kœnen, A. von; Mueller, G.; Wollemann, A.
- , Holland.—Wollemann, A.
- , Kansas.—Gould, C. N.; Jones, A. W.; Loomis, F. B.
- , King Charles Land.—Lindström, G.; Pompeckj, J. F.
- , Louisiana.—Harris, G. D.
- , Madagascar.—Boule, M.; Grossouvre, A. de; Haug, E.
- , Mexico.—Bose, E.
- , Mozambique.—Choffat, P.
- , Nebraska.—Gould, C. N.
- , Normandy.—Fortin, R.
- , Patagonia.—Ameghino, F.
- , Portugal.—Choffat, P.
- , Provence.—Répelin, J.
- , Queen Charlotte Is.—Whiteaves, J. F.
- , Rhenish Prussia.—Blanckenhorn, M.
- , Rumania.—Popovič-Hatzeg, V.; Simionescu, J.
- , Sarthe.—Grossouvre, A. de.
- , Saxony.—Bergt, W.; Petrascheck, W.
- , Silesia.—Guérich, G.
- , Simbirsk Gov.—Bogoslovski, N. A.
- , Spain.—Kilian, W.; Schlumberger, C.; Vidal, L. M.
- , Swiss Alps.—Baumberger, E.
- , Syria.—Behm, J.
- , Texas.—Hill, R. T., &c.
- , Turkestan.—Behm, G.
- , Yellowstone National Park.—Hague, A., &c.
- , —. *See also* Chalk, Foraminifera, &c.
- Cribilina*.—Neviani, A.
- Crinoid-pores.—Bather, F. A.
- Crinoidea, Carboniferous.—Beede, S. W.; Sollas, W. J.; Springer, F.
- , Cretaceous.—Beecher, C. E.; Rowe, A. W., &c.
- , Devonian.—Grabau, A. W., &c.

- Crinoidea, Jurassic.—Bigot, A.; Hague, A., &c.
 —, Permo-Carboniferous. — Enderle, J.
 —, Silurian.—Bather, F. A.; Jækel, O.; Rowley, R. R.
 —, Tertiary.—Oppenheim, P.
 —, Triassic.—Koken, E.; Tommasi, A.
Crioceras.—Simionescu, J.; Toulou, F.
 Cripple Creek (Colo.).—Cross, W.; Knight, F. C.; Lakes, A.; Palache, C.; Pearce, R.; Penrose, R. A. F., Jun.
Crisina.—Gregory, J. W.
Cristatella.—Andersson, G.
Cristellaria.—Chapman, F.; Reade, T. M.
 Croatia.—Gorjanović-Kramberger, K.
Crossolepis.—Fliche, P.
Crossothea.—Scott, D. H.
 Croydon (Surrey).—Dibley, E. G.; Parsons, H. F.; Whitaker, W.
 Crozon (Finistère).—Kerforne, F.
Crucibulum.—Ortmann, A. E.
 Crustacea, Cambrian.—Matthew, G. F.; Packard, A. S.; Toll, Baron E. von.
 —, Carboniferous. — Ami, H. M.; Beyschlag, F., &c.; Packard, A. S.; Taff, J. A.; Weller, S.
 —, classification.—Beecher, C. E.
 —, Cretaceous. — Segerberg, K. O.; Whiteaves, J. F.; Woodward, H.
 —, Devonian.—Beecher, C. E.
 —, pre-Cambrian tracks.—Walcott, C. D.
 —, Silurian.—Ami, H. M.; Laurie, M.; Pompeckj, J. F.; Reed, F. R. C.; Schmidt, F.; Taff, J. A.
 —, Tertiary.—Ortmann, A. E.; Packard, A. S.; Stainier, X., &c.
 — tracks.—Packard, A. S.
 —. See also Ostracoda, Trilobites, &c.
 Crust-torsion.—Gordon, M. M. O.
Cryptocarya.—Hollick, A.
Cryptocleidus.—Sheppard, T.
Cryptogelena.—Gregory, J. W.
Cryptonella.—Grabau, A. W.
Cryptonerita.—Tornquist, A.
Cryptoplocus.—Cossmann, M.
Cryptozoon.—Walcott, C. D.
 Crystal Falls (Mich.).—Clements, J. M., &c.
 Crystallization, magma.—Löwinson-Lessing, F.
 —, surface &c.—Emerson, B. K.
 Crystallography.—Becke, F.; Beckenkamp, J.; Daly, R. A.; Dokuchaev, V.; Fedorov, E. von; Lewis, W. J.; Liebisch, T.; Rutley, F.; Schenck, R.; Schmidt, A.; Stratonovich, E. D.; Viola, C.; Wallerant, F.; Weinschenck, E., &c.
 —. See also Mineralogy.
 Crystals, etched figures.—Hlawatsch, C.
 —, twinning.—Bowman, H. L.; Goldschmidt, V., &c.; Klockmann, F.; Lewis, W. J.; Milch, L.
 Cserhát (Hungary).—Palty, M.
Ctenis.—Seward, A. C.
Ctenobolbina.—Grabau, A. W.; Ulrich, E. O.
Ctenodonta.—Wolterstorff, W.
Ctenopyge.—Reed, F. R. C.
 Cuckmere Haven (Sussex).—Rowe, A. W., &c.
Cucullæa.—Bornhardt, W., &c.; Burckhardt, C.; Greppin, E.; Hague, A., &c.; Jukes-Browne, A. J.; Vogel, F.; Whiteaves, J. F.
 Cudegong (N.S.W.).—Carne, J. E.
 Cue (W. Austr.).—Maitland, A. G.
 Cuise-la-Motte (Oise).—Dollfus, G. F., &c.
 Culm, Magdeburg glacial striated.—Wahnschaffe, F.
 —, Nassau.—Kayser, E.
Cultellus.—Rovert, G.
 Cumberland.—Marr, J. E., &c.
Cuneocythere.—Lienenklaus, E.
Cuneolina.—Schlumberger, C.
 Curaçao (Leeward Is.).—Bauer, M.
 Cusps, beach.—Branner, J. C.; Woodman, J. E.
 —. See also Shore, &c.
 Cutch (India).—Gregory, J. W.
Cyathaxonia.—Rowley, R. R.
Cyathophyllum.—Grabau, A. W.
Cycadella, *Cycadeoidea*, & *Cycadeospermum*.—Ward, L. F.
Cycadinocarpus.—Scott, D. H.
Cycadofilices.—Seward, A. C.
Cycadospadiæ.—Scott, D. H.
Cycloceras.—Fucini, A.; Hug, O.
Cyclocladia.—White, N.
Cyclocypeus.—Chapman, F.
Cyclolites & *Cycloseris*.—Bornhardt, W., &c.; Oppenheim, P.
Cylichnina.—Sokolov, N.
Cylindrites.—Redlich, K.
Cymatosaurus.—Schrammen, A.
Cymbites.—Fucini, A.
Cyon.—Wortman, J. L., &c.
Cyperacites.—Hague, A., &c.
Cyphaspis.—Grabau, A. W.
Cyphastrea.—Søhle, U.
Cyphinus.—Holmes, W. M.
Cyperites.—Hollick, A.
Cypiniadea.—Rovert, G.
Cypræa.—Bauer, K.
Cypricardella.—Grabau, A. W.
Cypricardia.—Greppin, E.; Hague, A., &c.; Tornquist, A.
Cypricardinia.—Beushausen, L.; Grabau, A. W.
Cypridina.—Canavari, M.
Cyprina.—Böckh, H.; Böhm, G.
Cyprina-clay.—Hague, A., &c.; Madson, V.; Munthe, H.
Cypris.—Caped, G.
 Cyprus (I. of).—Bellamy, C. V.
Cyrena.—Blanckenhorn, M.; Böckh, H.; Dollfus, G. F., &c.; Krause, P. G.; Rovert, G.

- Cythere*.—Capeder, G.
Cytherella.—Capeder, G.; Lienenklaus, E.
Cyrtina.—Grabau, A. W.
Cyrtocalpis.—Holmes, W. M.
Cyrtoceras.—Crick, G. C.; Guerich, G.
Cyrtograptus.—Elles, G. L.; Guerich, G.
Cyrtoma.—Ortmann, A. E.
Cyrtopora.—Gregory, J. W.
Cystiphyllum.—Grabau, A. W.
Cystoidea, Silurian.—Bather, F. A.
 —. See also Echinodermata.
Cytherea.—Böckh, J.
Cythereis, *Cytheridea*, & *Cytherideis*.—Lienenklaus, E.
Cytheropteron.—Capeder, G.; Lienenklaus, E.
Cytherura.—Lienenklaus, E.
Czekanowskia.—Nathorst, A. G.; Ward, L. F., &c.
- Dacite.—Duparc, L., &c.; Rinne, F.
Dacryomya.—Loriol, P. de.
Dacrytherium.—Pavlov, M.
Dactylosaurus.—Schrammen, A.
Dactylothea.—Scott, D. H.; Zeiller, R.
Dakota (U.S.A.).—Barrell, A. H.; Darton, N. H.; Gould, C. N.; Penfield, S. L., &c.; Todd, J. E.; Ward, L. F., &c.
Dalmanella.—Taff, J. A.
Dalmania.—Thomas, H. H.
Dalmanites.—Grabau, A. W.
Dalmatia.—Kerner, F. von; Koenig, A.; Sehle, U.
Dalmeny (Linlithgow).—Seward, A. C.
Dalradian, Scotland.—Geikie, Sir A.
DAMES, W. B.—Frech, F.
Dankow-Smolensk Ry. (Russia).—Karakash, N.
Danube.—Böckh, H.
Danzig (Prussia).—Zeise, O.
Daonella.—Bittner, O.
Daphnia.—Andersson, G.
Daphnogene.—Hollick, A.
Darien (Colombia).—Woakes, E. R.
Darjeeling landslip (Bengal).—Anon. 54.
Dartmoor (Devon).—Woodward, H. B., &c.
Dauphiné (France).—Bertrand, M., &c.; Cole, G. A. J.; Kilian, W.; Lory, P., &c.; Termier, P.
Davenport (Iowa).—Barris, W. H.
Davos Valley (Grisons).—Rothpletz, A.
Dawlish (Devon).—Woodward, H. B., &c.
DAWSON, Sir J. W.—Adams, F. D.; Ami, H. M.; Anon. 6; Dawkins, W. B.; Whitaker, W.
Dearness, R. (Durham).—Elwen, T. L.
Decadocrinus.—Springer, F.
Decazeville (Aveyron).—Fayol, H.; Leriche, M.
Dechenella.—Guerich, G.
Decimal classification.—Mourlon, M.
- Deep-river formation.—Matthew, W. D.
 —.—sea deposits. See Oceanic.
Delphinula.—Bornhardt, W., &c.; Cossmann, M.
Deltas, formation of.—Vernon-Harcourt, L. F.
Deltodus.—Woodward, A. S.
Demerara R. (B. Guiana).—Harrison, J. B., &c.
Dendrites, formation of.—Watkins, A. O.
Dendrocolum.—Andersson, G.
Denmark.—Madsen, V.; Munthe, H.; Rordam, K., &c.
Dentalium.—Bauer, K.; Böckh, H.; Roverso, G.; Tate, R.
Denudation, N. Wales modern.—Dakyns, J. R.
 —, river.—Hayes, C. W.
 —. See also Erosion, &c.
Denver (Colo.).—Lakes, A.; Strong, W. C.
Derbyia.—Diener, C.; Enderle, J.; Hague, A., &c.; Schellwien, E.
Derbyshire.—Barnes, J.; Fox-Strangways, C., &c.
Dermaster.—Loriol, P. de.
Dermatochelys.—Wieland, G. R.
Deroceas.—Fucini, A.
Deruta, Mt. (Umbria).—Angelis d'Ossat, G. de.
Deserts, Asia (Central).—Hedin, S.
 —, origin of.—Fischer, T.; Marr, J. E.; Souleyre, A.; Walther, J.
 —, sand-dunes.—Cornish, V.
Desmoceras.—Burckhardt, C.; Simionescu, J.; Whiteaves, J. F.
Desmograptus.—Sacco, F.
Devallia.—Hague, A., &c.
Devizes (Wilts).—Jukes-Browne, A. J.
Devoluy massif (Dauphiné).—Lory, P., &c.
Devon.—Geikie, Sir A.; Jukes-Browne, A. J.; Ussher, W. A. E.; Woodward, H. B., &c.
Devonian, America (N.).—Williams, H. S.
 —, Asturias.—Jones, J. A.
 —, Bavaria.—Huene, F. von.
 —, Brazil.—Kayser, E.
 —, Canada.—Lambe, L. M.; Woodward, A. S. See also Ontario, &c.
 —, Colorado.—Spencer, A. C.
 —, Cornwall.—Crick, G. C.; Fox, H.; Geikie, Sir A.
 —, Eiffel & Harz.—Beushausen, L.
 —, Hesse.—Kayser, E.; Lotz, H.
 —, Ille-et-Vilaine.—Lebesconte, P.
 —, Iowa.—Barris, W. H.
 —, Ireland.—Geikie, Sir A.
 —, Liège, &c.—Destinez, P.
 —, Missouri.—Rowley, R. R.
 —, Monmouthshire.—Strahan, A.
 —, Moravia.—Remeš, M.
 —, Namur.—Mourlon, M.
 —, New York State.—Clarke, J. M., &c.; Grabau, A. W.

- Devonian, Ontario.—Ami, H. M.; Daly, R. A.
 —, Orkneys.—Flett, J. S.
 —, Rhenish Prussia.—Beushausen, L.; Holzapfel, E.; Kayser, E.; Philippson, A.
 —, Russia.—Yakovlev, N.
 —, Sauerland.—Denckmann, A., &c.
 —, Silesia.—Guerich, G.
 —, Wisconsin.—Monroe, C. E.
 —, Yellowstone National Park.—Hague, A., &c.
 Diabase, Celebes Is.—Rinne, F.
 —, Curacao.—Bauer, M.
 —, implements.—Wilson, T.
 —, Michigan.—Clements, J. M., &c.
 —, Salzkammergut.—John, C. von.
 —, Sardinia.—Riva, C.
 —, Tasmania.—Stephens, T.; Twelvetees, W. H., &c.
 Diadema.—Hesse, E.
 Diamonds, African.—Bonney, T. G.; Day, P. R.
 —, New South Wales.—McLachlan, D. C.
 —, origin of.—Bonney, T. G.; Kunz, G. F.; Schauf, W.
 —, Transvaal.—Molengraaff, G. A. F.
 Diastopora.—Gregory, J. W.
 Diatomaceæ, Jurassic.—Rothpletz, A.
 —, Quaternary.—Traxler, L.
 Diatomaceous deposits.—Pollok, J. H.
 Dicellocephalus.—Bergeron, J.
 Dicellomus.—Hague, A., &c.
 Dicerocardium.—Bittner, A.
 Dichobune.—Pavlov, M.
 Dicksonites.—Zeiller, R.
 Dicolocapsa.—Holmes, W. M.
 Diceranophyllum.—White, D.
 Diceranozygoma.—Seeley, H. G.
 Dictyomitra.—Holmes, W. M.
 Dictyonema.—Callaway, C.; Grabau, A. W.
 Dictyopsella.—Schlumberger, C.
 Dictyothyris.—Remeš, M.
 Didolodus.—Roth, S.
 Didymites.—Mojsisovics, E. von.; Waagen, L.
 Die (Drôme).—Michel-Lévy, A., &c.
 Dielasma.—Diener, C.; Grabau, A. W.; Hague, A., &c.
 Dieppe (Normandy).—Jukes-Browne, A. J.
 Dill R. & Dillenburg (Hesse).—Kayser, E.
 Diluvial. *See* Quaternary.
 Dimbovicioara R. (Rumania).—Simionescu, J.
 Dimetrodon.—Bauer, G., &c.
 Dimorpharæa.—Gregory, J. W.
 Dimorphastræa.—Gregory, J. W.; Sæhle, U.
 Dimorphoceras.—Wolterstorff, W.
 Dimya.—Oppenheim, P.
 Dinichthys.—Eastman, C. R.
 Dinosauria, Cretaceous.—Depéret, C.
 Dinosauria, Jurassic.—Lennier, G.; Osborn, H. F.
 Dinotherium.—Stefanescu, G.; Vacek, M.
 Diois massif (Dauphiné).—Lory, P.
 Diopside.—Weinschenk, E.
 Diorite.—Cathrein, A.; Clements, J. M., &c.; Duparc, L., &c.; John, C. von; Rinne, F.; Salomon, W.
 —. *See also* Igneous rocks.
 Diospyros.—Hague, A., &c.
 Diou (Allier).—Anon. 59.
 Diplobune.—Pavlov, M.
 Diplocenia.—Bornhardt, W., &c.
 Diplodentus.—Schlueter, C.
 Diplodocus.—Osborn, H. F.
 Diplodonta.—Rovert, G.
 Diplotraptus.—Hall, T. S.; Lapworth, H.
 Diplopoda.—Tornquist, A.
 Diplotmema.—Zeiller, R.
 Diprotodon.—Stirling, E. C., &c.
 Dipterus.—Eastman, C. R.
 Discina.—Bittner, A.; Herrick, C. L.
 Whiteaves, J. F.
 Discites.—Yakovlev, N.
 Discoides.—Fortin, R.
 Discopteris.—Zeiller, R.
 Discorbina.—Chapman, F.; Reade, T. M.
 Discospora.—Gregory, J. W.
 Dittmarites.—Mojsisovics, E. von.
 Dittodus.—Hay, O. P.
 Dobbartin (Mecklenburg).—Geinitz, E.
 Dobling (L. Austria).—Karrer, F.
 Dolerite, Tasmania.—Twelvetees, W. H.
 Dolichometopus.—Matthew, G. F.
 Dolium.—Ortmann, A. E.
 Dolomite, Catalonia.—Stuart-Menteath, P. W.
 — minerals.—Weinschenk, E.
 — money.—Farrington, O. C.
 —, Rhætian Alps.—Bodmer-Beder, A.
 Dolomitic limestone, Christmas I.—Andrews, C. W., &c.
 Dombeyopsis.—Hague, A., &c.
 Domeykite.—Kenig, G. A.
 Donax.—Sokolev, N.
 Doncaster (Yorks.).—Anon. 57; Sheppard, T., &c.
 Donegal, Co. (Ireland).—Cole, G. A. J., &c.; Elsdon, J. V., &c.
 Donetz coalfield (Russia).—Mauerhofer, J.
 Donnybrook (W. Austr.).—Beyschlag, F., &c.
 Dora Riparia (Piedmont).—Colomba, L.
 Dordogne (Périgord).—Glangeaud, P.; Michel-Lévy, A.
 DORMAL, V.—Mourlon, M.
 Dorset.—Hudleston, W. H., &c.; Jukes-Browne, A. J.; Lydekker, R.; Mansel-Pleydell, J. C.; Solly, H. S.; Whitaker, W.
 Dorycordaites.—Scott, D. H.
 Dorycerinus.—Rowley, R. R.

- Dorypyge*.—Matthew, G. F.; Toll, Baron E. von.
Dosinia.—Rovert, G.; Sokolov, N.
Dover (Kent).—Cooode, J. C., &c.; Dawkins, W. B.; Etheridge, R.; McDakin, S. G., &c.; Rowe, A. W., &c.; Turner, H. E.
Dover, Straits of.—Dawkins, W. B.; Gosselet, J.; Lebesconte, P.; Sauvage, H. E.
DOWKER, G.—Whitaker, W.
Down, Co. (Ireland).—Egan, F. W., &c.; Seymour, H. J.
Downes, Wight (I. of).—Warren, S. H.
‘Dreikanter.’ See Windworn stones.
Dreissensia.—Degrange-Touzin, —; Rovert, G.
Drepanaspis.—Traquair, R. H.
Drepanopteris.—Laurie, M.
Drepanura.—Bergeron, J.
Dresden (Saxony).—Nessing, R.; Petrascheck, W.
Driffield Museum (Mortimer).—See Museums.
Drift, Colorado.—Lee, W. T.
—, Dakota.—Todd, J. E.
—, Germany (N.).—Bonney, T. G., &c.; Jentzsch, A.; Koenen, A. von; Wahnschaffe, F.; Wieggers, F.
—, Iowa.—Calvin, S.
—, littoral.—Wheeler, W. H.
—, local origin.—Salisbury, R. D.
—, Moel Tryfaen.—Greenly, E.
—, Russian Poland.—Schmidt, F.
—, Staten I.—Hollick, A.
—, —. See also Glacial deposits, Rubble, &c.
Driftless region, Iowa.—Calvin, S.
—, Minnesota.—Grant, U. S.
Drillia.—Cossmann, M.; Ortmann, A. E.
Dromia & Dromiopsis.—Segerberg, K. C.
Drumlins, Pomerania.—Keilhack, K.
—, Rügen I.—Baltzer, A.
Dryopteris.—Hague, A., &c.
Dublin, Co.—O’Reilly, J. P.
Dufrenoy site.—Solly, R. H.
Dafton Pike (Westmorland).—Rutley, F.
Dumortieria.—Fucini, A.
Dundee (Natal).—Heslop, W. T.
Dunes, Dunkerque.—Gosselet, J.
—, formation of.—Cornish, V.; Walther, J.
—, Gascony.—Fabre, L. A.
—, Kent.—Dowker, G.
—, Rocky Mts.—Davis, W. M.
Dunite.—Vogt, J. H. L.
Dunkerque (Nord).—Gosselet, J.
Dura Den (Fife).—Coates, H.
Durango (Mexico).—Furnan, H. van F.; Halse, E.
Durban (Aude).—Klockmann, F.
Durham coalfield.—Anon. 42; Bell, T.
—, glacial deposits.—Elwen, T. L.
Dutch East Indies.—Anon. 35; Bøhm, G.; Buecking, H.; Carthaus, E.; Hagen, B.; Rinne, F.; Schroeder van der Kolk, J. L. C.; Webber, M.
—, —. See also Java, &c.
Dwina R. (Russia), Quaternary.—Vollosovich, K. A.
Dwlbau Pt. (Anglesey).—Greenly, E.
Dwyka coal-measures.—Dunn, E. J.
— Conglomerate.—Blanford, W. T.
Dykes, Anglesey.—Greenly, E.
—, formation of.—Shaler, N. S.
Dynamometamorphism.—Milch, L.
Earth, age of.—Geikie, Sir A.; Gilbert, G. K.; Joly, J.; Sollas, W. J.
—, astronomy.—Péroche, J.
—, atmosphere.—Stevenson, J.
—, colour.—Nicolis, E.
—, crust.—Lapparent, A. de; Lamarre-Olivier, A.; Rudzki, P.; Suess, E.
—, deformation.—Rudzki, P.
—, displacement of axis.—Bertrand, M.
—, edible, Fiji.—Corney, B. G., &c.
—, evolution.—Mansel-Pleydell, J. C.; Sollas, W. J.
—, internal heat, &c.—Goodchild, J. G.; Milne, J.
—, movements, I. of Man.—Lamplugh, G. W.
—, nebular hypothesis.—Chamberlin, T. C.
—, pillars.—Capeder, G.
—, surface.—Avebury, Lord; Marr, J. E.
—, symmetry.—Bertrand, M.; Lapparent, A. de.
—, temperature, Michigan.—Lane, A. C.
—, white-hot liquid.—Geikie, J.
—, —. See also Geology, &c.
Earthquake-sounds.—Davison, C.
—station, Strassburg-i-E.—Gerland, G.; Jähnike, A.
—velocity.—Nagaoka, H.; Oldham, R. D.; Rudzki, M. P.
—vibrations.—Knott, C. G.; Rudzki, M. P.
Earthquakes, Alsace.—Gerland, G.
—, America (C.).—Bertrand, M.
—, Asia Minor.—Agamennone, G.
—, Austria-Hungary.—Harboe, E. G.; Hornes, R.; Kerner, F. von; Mojsisovics, E. von.
—, Belgium.—Chesneau, C.
—, British.—Davison, C.; De Rance, C. E.
—, California.—Claypole, E. W.; Perrine, C. D.
—, distribution, &c.—Milne, J.
—, geometrical theory.—Kövesligethi, R. von.
—, Greece.—Eginitis, D.; Mitzopoulos, C.
—, human beings &c.—Davison, C.

- Earthquakes, India.—Davison, C.; Oldham, R. D.
 —, Italy.—Agamennone, G.; Baratta, M.; Canavari, M.
 —, Japan.—Omori, F.; Sekiya, S., &c.; Yamasaki, N.
 —, Lisbon, 1755.—Suess, F. E.
 —, Moluccas.—Lucas, W.
 —, rocks &—Nagaoka, H.
 —, Russia.—Montessus de Ballore, F. de.
 —, Saxony.—Credner, H.
 —, study.—Davison, C.
 —, world.—Montessus de Ballore, F. de.
 —, Württemberg.—Schmidt, A.
 —, See also Seismographs.
 Eastbourne (Sussex).—Rowe, A. W., &c.; Sherborn, C. D.
 Eberhardt cave (Patagonia).—Lønnberg, F.
 Ebersdorf (Silesia).—Guerich, G.
Eccyliomphalus.—Grabau, A. W.
Echinasteria & *Echinodiscus*.—Stuert, B.
 Echinoidea, Carboniferous.—Hague, A., &c.
 —, Cretaceous.—Arnaud, H.; Fortin, R.; Gregory, J. W.; Hesse, E.; Jukes-Browne, A. J.; Lorient, P. de; Schlueter, C.
 —, Devonian.—Stuert, B.
 —, Jurassic.—Bigot, A.; Lorient, P. de.
 —, microscopic structure of tests of.—Hesse, E.
 —, Quaternary.—Dawson, Sir J. W.
 —, Silurian.—Ami, H. M.; Bather, F. A.; Stuart, B.
 —, Tertiary.—Airaghi, C.; Böckh, H.; Gauthier, V.; Gregory, J. W.; Oppenheim, P.; Ortmann, A. E.; Spandel, E.
Echinolampas.—Airaghi, C.; Oppenheim, P.
Echinophoria.—Rovert, G.
Echinostella.—Stuert, B.
Echinus.—Hesse, E.
 Eckartsbera (Merseburg).—Schuetze, E.
 Eclogite.—Bonney, T. G.
 Ecole libre des Hautes Etudes scientifiques; & Ecole nationale supérieure des Mines. See Museums, Paris.
Ectocritites.—Bonarelli, G.
 Ecuador (C. Am.).—Stuebel, A.
 Eddystone (Devon).—Worth, R. H.
Edestus.—Karpinski, A.
 Edinburgh (Scotland).—Smith, R.
Edmondia.—Enderle, J.; Herrick, C. L.; Taff, J. A.
Edrisater.—Bather, F. A.
 Educational series of U.S. rocks.—Diller, J. S.
 EDWARDS, A. M. See Milne-Edwards, A.; & H.
 Eggardon Hill (Dorset).—Solly, H. S.
 Egypt.—Alford, C. J.; Andrews, C. W.; Barron, T., &c.; Beadnell, H. J. L.; Berthelot, —; Blanckenhorn, M.; Chapman, F.; Depéret, C., &c.; Dewitz, J.; Evans, Sir J.; Fourtau, R.; Grant Bey; MacAlister, D. A.; Mayer-Eymar, C.; Szadeczki, J.
 Egyptian tiles, supposed plants &—Blanckenhorn, M.
 Ehringshausen (Hesse).—Kayser, E.
 Eichkogel (L. Austria).—Vacek, M.
 Eifel (Rh. Prussia).—Beushausen, L.; Eastman, C. R.; Kayser, E.
 Eighteen-mile Creek (N.Y.).—Grabau, A. W.
 Eisengebirge (Bohemia).—Rosiwal, A.
 'Ejected blocks,' Viterbo, sodalite in.—Zambonini, F.
 Elæolite-syenite.—Gregory, J. W.
 Elaterite.—Maguire, —.
Elæodendron.—Hague, A., &c.
 Elb R. (Bohemia).—Hibsch, J. E.
 Elba I.—Achiardi, G. d'; Manasse, E.
 Elbe R. (Hanover).—Kört, W.; Muel-ler, G.; Schröder, H.
 Elbeteinitz (Bohemia).—Rosiwal, A.
 Elbrus (Caucasus).—Dannenberg, A.
Elea.—Gregory, J. W.
Elephas africanus.—Cocchi, J.
 —, Calabria.—Stefano, G. de.
 —, Thuringia.—Moeller, H.
Eleutherocrania.—Huene, F. von.
 Elizabethtown (N.Y.).—Kemp, J. F.
 Elk, French.—Harlé, E.
 —, Irish.—Kermode, P. M. C.
 ELLIOT, Sir G.—Dickinson, J.
Elonichthys.—Hay, O. P.
 Elsa R. (Tuscany).—Zanna, P. del.
 Elsworth (Cambs).—Wedd, C. B.
Elymella.—Grabau, A. W.
Emarginula.—Cossmann, M.
 Eltville-am-Rhein (Nassau).—Fresenius, H.
 Emeralds, Upper Egypt.—MacAlister, D. A.
 Emery. See Corundum.
 Emilia (Italy).—Sangiorgi, D.
 Emmaville (N.S.W.).—Slee, W. H. J.
Empetrum.—Andersson, G.
Enchodus.—Loomis, F. B.
 Encrinite-limestone, Northern Bothnia.—Sjögren, H.
Encrinus.—Tommasi, A.
 Endeolite.—Gaubert, P.
Endioplacus.—Böhm, J.; Cossmann, M.
Endiutrachelus.—Cossmann, M.
 Endlichite.—Goldschmidt, V.
Endothyra.—Barnes, J., &c.; Hague, A., &c.
 Engadin (Grisons).—Rothpletz, A.
 England, *Corbicula fluminalis*-zone.—Rutot, A.
 —, Geological Survey. See Geological Surveys.
 — (N.), Geology & palæontology, 1894, 1895.—Sheppard, T.
 — (S.E.).—Rowe, A. W.; Whitaker, W.; see also Kent, &c.
 —, See also Geological Survey, Quaternary, &c.

- English Channel.—Dawkins, W. B.; Gosselet, J.; Lebesconte, P.; Sauvage, H. E.; Worth, R. H.
 — coast (S.E.).—Rowe, A. W., &c.
 — Lake District.—Marr, J. E., &c.
Entalis.—Enderle, J.
Entalophora.—Gregory, J. W.
Entolium.—Greco, B.; Greppin, E.
Entomis.—Canavari, M.; Grabau, A. W.
 Entomostraca, Tertiary.—Capeder, G.
 —. See Ostracoda.
Entrochus.—Koken, E.
 Eocene, Egypt.—Mayer-Eymar, C.
 —, Louisiana.—Harris, G. D.
 —, Wyoming.—Eastman, C. R.
 —. See also Tertiary, Corals, &c.
 Epernay (Marne).—Dollfus, G. F., &c.
Ephippioceras.—Crick, G. C.
Epiaster.—Loriol, P. de.
 Epidiorite.—O'Reilly, J. P.
 Epidote.—Heddle, M. F.; Ternier, P.; Zambonini, F.
 Epistolite.—Gaubert, P.
 Epsom salts.—Lemberg, J.
 Epsomite.—Farrington, O. C.
Equisetum.—Andersson, G.; Bureau, E.; Hague, A., &c.; Ward, L. F., &c.
Equus.—Boule, M.; Hay, O. P.
 Era R. (Tuscany).—Ugolini, R.
Eremopteris.—White, D.
Eretmocrinus.—Rowley, R. R.
 'Ergeron.'—See Löss.
 Erie Co. (N.Y.).—Grabau, A. W.
Erinnyis.—Matthew, G. F.
Eriophyla.—Bornhardt, W., &c.
 Ermeton-sur-Biert (Namur).—Mourlon, M.
 Ernici, Mt. (Romagna).—Viola, C.
 Erosion, æolian.—Cornish, V.
 —, rhythmical.—Emerson, B. K.
 —, river.—Brittlebank, C. C.
 —. See also Weathering, &c.
 Erratic boulders, British Is.—Kendall, P. F.
 —, Switzerland.—Baltzer, A.
 —, Umbria.—Angelis d'Ossat, G. de.
 —. See also Glacial deposits, &c.
 Eruptive rocks, classification. See Igneous rocks.
Ervilia.—Sokolov, N.
Eryma.—Woodward, H.
Eryops.—Williston, S. W.
 Erzberg (Styria).—Vacek, M.
 Erzgebirge (Hungary).—Gæbert, C.; Schafarzki, F.; Semper, M.
 — (Saxony).—Dalmer, K.
 ESKRIGGE, R. A.—Whitaker, W.
 Esmeralda formation.—Turner, H. W.
 Essequibo R. (British Guiana).—Harrison, J. B., &c.
 Essex.—Dalton, W. H.; Harmer, F. W.; Martin, E. A.; Thresh, J. C.
Esteria.—Beyschlag, F., &c.
 Estuarine deposits, Clyde.—Knight, G. A. F.; Robertson, —.
 Etampes (Seine-et-Oise).—Dollfus, G. F., &c.
 Etbai (U. Egypt).—MacAlister, D. A.
 Etcheminian.—Matthew, G. F.
 Etna (Sicily).—Platania, G.
Eucyclus.—Cossmann, M.
Eucytherura.—Lienenklaus, E.
 Euganean Hills (Venetia).—Dal Piaz, G.
Euloma.—Pompeckj, J. F.
Eumetria.—Diener, C.; Hague, A., &c.; Rowley, R. R.
Euomphalus.—Enderle, J.; Yakovlev, N.
Euphanerops.—Woodward, A. S.
Euphemus.—Yakovlev, N.
Eupsammia.—Oppenheim, P.
 Eureka (Utah).—Tower, G. W., jun., &c.
 Europe, faunal migration.—Scharff, R. F.
 —. See Austria, &c.
Eurycarpus.—Seeley, H. G.
Eurypterus.—Laurie, M.
 — tracks.—Walcott, C. D.
Euspatangus.—Oppenheim, P.
Euspira.—Bæhm, J.
Euspongilla.—Andersson, G.
Eustylus.—Tornquist, A.
 Evolution, fishes &c.—Traquair, R. H.
 —, geological changes &c.—Dewalque, G.; Robinson, J. F.; Sollas, J. W.
 Ewattingen a. d. Wutach (Baden).—Schalch, F.
Exellissa.—Vogel, F.
 Exeter (Devon).—Ussher, W. A. E.
 Exmouth (Devon).—Woodward, H. B., &c.
Exogyra.—Bornhardt, W., &c.; Burckhardt, C.; Harris, G. D.; Jukes-Browne, A. J.; Oppenheim, P.; Wollemann, A.
 Eyquem's R. (Gironde).—Degrange-Touzin, —.
 Eyre, L. (S. Austr.).—Zietz, A.
Fagus.—Hague, A., &c.; Peola, P.
 Falzarego Valley (Tyrol).—Gordon, M. M. O.
 Famennian.—Destinez, P.; Mourlon, M.; Simoons, G.
 Farne I. (Northumberland).—Gunn, W.
Fascicularia.—Neviani, A.
 Faults, Golden.—Lakes, A.
 —, natural model.—Rinne, F.
 —, thrusting.—Lakes, A.
 —, Vicentino.—Taramelli, T.
 Faunas, migration of.—Scharff, R. F.
Favia.—Gregory, J. W.
Favosites.—Grabau, A. W.; Hague, A., &c.; Lambe, L. M.
 Fayalite.—Lacroix, A.; Lovisato, D.
 Fayalite-basalt.—White, O. E., &c.
 Fedorovite.—Viola, C., &c.
 FEILDEN, H. W.—Bonney, T. G.
Feildenia.—Nathorst, A. G.
Feistmantelia.—Ward, L. F., &c.
Felis.—Schroeder, H.; Woodward, A. S.
 Fell Sandstone.—Gunn, W.
 Felsite.—Twelvetreves, W. H., &c.

- Felsite porphyrite-dyke, Columbia Vein (Colo.).—Palmer, C. S., &c.
 ———. *See also* Igneous rocks.
 Felspars.—Duparc, L., &c.; Viola, C.
 ———, determination of.—Stratonovich, E. D.
 ———, Baikal Lake.—Jeremejev, P. von.
 ———, United States.—Ries, H.
 ———. *See also* Plagioclase, &c.
 Felspathic material & augite, mica from.—Parsons, J.
 Felspathic rocks.—Spurr, J. E.; Turner, H. W.
 Felstone-dyke, Snowdon.—Dakyns, J. R.
Fenestella.—Diener, C.; Grabau, A. W.; Rogers, A. F.
 Fergusonite.—Nordenskjöld, Baron A. E.
 Ferns, Carboniferous.—Grand'Eury, C.
 ———. *See also* Plants.
 Ferschbach valley (Salzburg).—Abel, O.
 Fibrolite.—Heddle, M. F.
Fibula.—Cossmann, M.
 Fichtelgebirge (Bavaria).—Ebbecke, —.
Ficophyllum.—Ward, L. F., &c.
Ficus.—Hague, A., &c.; Hollick, A.
 Fife (Scotland).—Coates, H.
 Fiji Is., edible earth.—Corney, B. G., &c.
 Filey (Yorks).—Sheppard, T., &c.
Filicrisina.—Gregory, J. W.
 Filtration, natural.—Kemna, A.; Verstraeten, T.
Fimbria.—Bornhardt, W., &c.; Wollemaun, A.
 'Finger Lakes.'—Fairchild, H. L.
 Finistère (Britanny).—Kerforne, F.; Thoulet, J.
 Finland.—Ailo, J.; Andersson, G.; Ardaillon, E.; Frosterus, B.; Hackmann, V.; Olsson, P. H.; Ramsay, W.; Rosberg, J. E.; Sederholm, J. J.; Tigerstedt, A. F.
 Fire-clays, Allier.—Anon. 59.
 ———, Yorkshire.—Elsden, J. V.
 Fire-damp.—Van den Broeck, E.
 FISHER, Rev. O.—Davison, C.
 Fishes, Carboniferous.—Brown, C.; Guerich, G.; Hay, O. P.; Karpinski, A.; Traquair, R. H.; Wellburn, E. D.; Williston, S. W.; Wolterstorff, W.; Woodward, A. S.
 ———, Cretaceous.—Brown, C.; Loomis, F. B.; Newton, E. T.; Williston, S. W.; Woodward, A. S.
 ———, Devonian.—Dean, B.; Eastman, C. R.; Fox, H.; Guerich, G.; Huene, F. von; Traquair, R. B.; Woodward, A. S.
 ———, Geological Survey of Scotland collection.—Traquair, R. H.
 ———, Jurassic.—Ammon, L. von; Brown, C.; Eastman, C. R.; Sauvage, H. E.; Seehle, U.; Woodward, A. S.
 ———, Ordovician.—Chambers, T. C.
 ———, Permian.—Jäkel, O.; Karpinski, A.
 ———, Quaternary.—Munthe, H.
 ———, Silurian.—Traquair, R. H.
 Fishes, Tertiary.—Eastman, C. R.; Woodward, A. S.
 ———, Triassic.—Brown, C.
 Fissure-veins.—Lakes, A.
 FITZGERALD'S (E. A.) Andes Expedition.—Bonney, T. G.; Crick, G. C.
Fistulicella & *Fistuliporina*.—Grabau, A. W.
 Fjords.—Jervis, W.; Nordenskjöld, O.
Flabellum.—Dennant, J.; Schubert, R. J.
 Flagstones, Yorkshire.—Elsden, J. V., &c.
 Flambro' buried valley (Yorks).—Stather, J. W.
 Flanders, Belgian.—Van Ertborn, Baron O.
 ———, French.—Gosselet, J.
 Flandrian.—Van Ertborn, Baron O.
Fletcheria.—Lambe, L. M.
Flexopecten.—Philippi, E.
 Flint, origin of.—Sollas, W. J.; Wilson, T.
 ——— implements. *See* Implements.
 Flora. *See* Plants.
 Florencite.—Hussak, E., &c.; Prior, G. T.
 Florida, infusorial earth.—Parker, E. W.
 FLOWER, Sir W. H.—Anon. 7; Hoyle, W. E.; Whitaker, W.
 Fluocerite.—Nordenskjöld, A. E.
 Fluor.—Achiardi, G. d'.
 Fluorine, calcium &c.—Bemmelen, J. M., &c.
 ——— in Belgian soils.—Buttgenbach, H.
 ———, mineral waters with.—Ferreira da Silva, A. J., &c.
 ———, N.S.W. minerals with.—Harker, G.
 Fluorspar.—Bemmelen, J. M. van, &c.; Parker, E. W.; Schmidt, C.
 Fluvialite deposits, Europe & Rocky Mts., &c.—Davis, W. M.
 Flynch, Pyrenees.—Caralp, —.
 ———, Vienna.—Bittner, A.
 Fogelsång (Scania).—Nilsson, A., &c.
 Folkestone (Kent).—Sorby, H. C.; Woodward, H.
 Fonds-de-Tahaux (Namur).—Dorlodot, H. de.
 Footprints, Permian.—Pabst, W.
 Foraminifera, bibliography 1888-98.—Tutkovski, P.
 ———, Cambrian.—Chapman, F.
 ———, Carboniferous.—Barnes, J., &c.; Smith, A. J.
 ———, Christmas I. orbital limestone.—Andrews, C. W., &c.
 ———, Cretaceous.—Chapman, F.; Jones, T. R.; Schlumberger, C.; Schubert, R. J.
 ———, English Channel.—Worth, R. H.
 ———, Jurassic.—Chapman, F.
 ———, Quaternary.—Chapman, F.; Greenly, E.; Reade, T. M.; Robertson, —.

- Foraminifera, rubble-drift.—Chapman, F.
 —, Tertiary.—Chapman, F.; Fornasini, C.; Limburg-Stürum, A. de; Lœrenthey, —; Schlumberger, C.; Schubert, R. J.; Tate, R., &c.; Velge, G.
 Foraporta, Mt. (Basilicata).—Greco, B.
Forbesiceras.—Blanckenhörn, M.
 Foreland, North (Kent).—Rowe, A. W., &c.
 Foresite.—Manasse, E.
 Forest-bed *Cervus*.—Harmer, S. F.
 Forestry, geology &.—Graner, —.
Foricula.—Gregory, J. W.
 Fornby (Cheshire).—Reade, T. M.
 Formosa (China).—Kotó, B.
 Fossils, microphotography of.—Rowe, A. W.
 Fourchites.—Gregory, J. W.
 France, Central massif.—Boule, M.; Michel-Lévy, A.; Philippi, E.
 —, *Corbicula fluminalis*-zone.—Rutot, A.
 — (N.), water-supply to towns.—Anon. 37.
 —. See also Caverns, Quaternary, &c. Frankenu (Hesse).—Linstow, O. von.
 Frankfort-on-Main (Germany).—Anon. 39; Kinkelin, F., &c.; Neumann, E.
 Franklin (N.J.).—Penfield, S. L., &c.; Wolff, J. E.
 Franz Josef Land (Arctic).—Nathorst, A. G.; Pompeckj, J. F.
Fraxinus.—Hague, A., &c.; Hollick, A.
Frechia.—Gregory, J. W.
 Frederick Henry Bay (Tasmania).—Stephens, T.
 Freiberg (Saxony).—Beck, R.
 French Guiana.—Hamy, E. T.
 Fribourg (Switzerland).—Hug, O.
 FRIEDEL, C.—Anon. 8; Bauer, M.; Curie, P.; Voit, C. von.
 Friedrichroda (Thuringia).—Pabst, W.
 Frierte R. (Mexico).—Doyle, K. D.
 Frisian Is. (Schleswig-Holstein).—Splieth, W.; Stolley, E.
 Frodingham (Lincs).—Parrish, W.
 Fuchs site.—Bauer, M.
 Fuller's Earth.—Parker, E. W.
 Fumel (Lot-et-Garonne).—Sauvage, H. E.
 Funafuti (Ellice Is.).—Chapman, F.; Stephens, T.
 Furness (Lancs).—De Rance, C. E.
Fusaficula.—Harris, G. D.
Fusulina.—Smith, A. J.
Fusus.—Bauer, K.; Harris, G. D.; Ortmann, A. E.; Rovertó, G.; Tate, R.; Wollemann, A.
 Fyn I. (Denmark).—Madsen, V.; Munthe, H.
 GABB, W. M.—Villareal, F.
 Gabbro, Ardnamurchan.—Busz, K.
 —, Michigan.—Clements, J. M., &c.
 —, Minnesota.—Winchell, A. N.
 —, New York.—Kemp, J. F.
 Gabbro, Salzkammergut.—John, C. von.
 —, Silesia.—Guerich, G.
 Gadolite.—Nordenskjöld, Baron A. E.
 Gaeta, Mt. (Campania).—Cassetti, M.
Galathes.—Seegerberg, K. O.
 Galena, United States.—Kirchoff, C.; Rogers, A. F.
Galeocassis.—Rovertó, G.
Galeocerdo.—Woodward, A. S.
 Galicia (Austria-Hungary).—Hult, R.
Gallinuloides.—Lucas, F. A.
 Galloway (S. Scotland).—Kinalhan, G. H.
 GALTON, Sir D. S.—Anon. 9; Whitaker, W.
 Ganges delta.—Forlong, J. G. R.
 Ganjan (Madras).—Smith, F. H.
 Gard (France).—Bertrand, M.; Boule, M., &c.; Martel, E. A.; Raymond, P.
 Garda, Lake (Tyrol).—Schaffer, F.
 GARLAND, J.—Anon. 10.
 'Garland,' s.s.—Knight, G. A. F.
 GARLICK, E.—Anon. 11.
 Garnet.—Boeris, G.; Kunz, G. F.; MacLeod, W. A., &c.; Ehmiichen, H.; Parker, E. W.
 Garonne Valley, Pyrenean rocks, &c.—Carez, L.; Harlé, E.
 Gas (natural), Indiana.—Hall, C. F.
 — (—), Kansas.—Orton, E.
 — (—), Meurthe-et-Moselle, Glauber's salt.—Lebrun, A.
 — (—), Ontario.—Ami, H. M.
 — (—), New York.—Prosser, C. S.
 — (—), United States.—Oliphant, F. H.
 Gascony (France).—Fabre, L. A.
 Gasteropoda, Cambrian.—Hague, A., &c.; Matthew, G. F.
 —, Carboniferous.—Donald, J.; Taff, J. A.; Weller, S.; Wolterstorff, W.; Yakovlev, N.
 —, Cretaceous.—Boehm, G.; Boehm, J.; Burckhardt, C.; Cossmann, M.; Guerich, G.; Hague, A., &c.; Harris, G. D.; Jukes-Browne, A. J.; Krause, P. G.; Simionescu, J.; Toulou, F.; Wollemann, A.
 —, Devonian.—Donald, J.; Fox, H.; Grabau, A. W.; Hague, A., &c.; Lotz, H.; Rowley, R. R.
 —, Jurassic.—Bornhardt, W., &c.; Burckhardt, C.; Cossmann, M.; Greco, B.; Guéhard, A.; Hague, A., &c.; Lorient, P. de; Söhle, U.; Vogel, F.
 —, Permian.—Herrick, C. L.
 —, Permo-Carboniferous.—Enderle, J.
 —, Quaternary.—Baker, F. C.; Kennard, A. S., &c.; Knipovich, N.; Newton, R. B.; Pallary, P.
 —, Silurian.—Ami, H. M.; Donald, J.; Taff, J. A.
 —, Tertiary.—Angelis d'Ossat, G. de, &c.; Bauer, K.; Blanckenhörn, M.; Boeckh, H.; Cossmann, M.; Gregory, J. W.; Krause, P. G.; Mayer-Eymar, C.; Miller, K.; Morena, T.; Murdoch

- R.; Oppenheim, P.; Ortmann, A. E.; Roverso, G.; Schubert, R. J.; Sokolov, N.; Stefano, G. de; Tate, R.; Ugolini, R.; Vincent, E.
- Gasteropoda, Triassic.—Koken, E.; Repelin, J.; Tommasi, A.; Tornquist, A.
- Gault, English.—Bonney, T. G.; Jukes-Browne, A. J.; Woodward, H.
- Gäuta (Jemtland).—Gavelin, A.
- Gay-Lussite.—Farrington, O. C.
- Gaya (Moravia).—Hofmann, A.
- Gedrite.—Lacroix, A.
- GEINITZ, H. B.—Anon. 12; Geinitz, F. E.; Hinde, G. J.; Kalkowski, E.; Tietze, E.; Whitaker, W.
- Geinitzia*.—Ward, L. F., &c.
- Gelocus*.—Pavlov, M.
- Gems.—Kunz, G. F.
- Genabacia*.—Gregory, J. W.
- Genesee valley (U.S.A.).—Fairchild, H. L.
- Geneva (Switzerland).—Renevier, E., &c.
- Gemmaocrinus*.—Grabau, A. W.
- Genyornis*.—Stirling, E. C.
- Genzano (Romagna).—Sabatini, V.
- Geological agents, ants as.—Branner, J. C.
- climates.—Harmer, F. W.
- co-operation, international.—Chamberlin, T. C.; Geikie, Sir A.
- Commission, Switzerland.—Æppli, A.; Renevier, E., &c.
- hypothesis.—Posnett, H. M.
- Institute, Hungary.—Böckh, J., &c.
- literature, England (N.) 1894-95.—Sheppard, T.
- , N. America.—Leith, C. K.
- Museums. *See* Museums.
- nomenclature.—Ells, R. W.; Fletcher, H.
- photographs.—Rowe, A. W.; Watts, W. W.
- section, Leicester Lit. & Phil. Soc. 1849-1900.—Hall, W. J.
- science, advance of.—Whitaker, W.
- Society, medals, &c.—Whitaker, W.; White, H., &c.
- Museum.—Sherborn, C. D.
- , origin.—Evans, Sir J.
- , America.—Stevenson, J. J.
- , Berlin.—Anon. 39.
- , Servia.—Radovanović, S.
- Survey, Austria-Hungary.—Anon. 51; Stache, G.; Tietze, E., &c.
- , Baden.—Andræ, A., &c.; Sauer, A.; Schalch, F.; Steinmann, G., &c.; Thuerach, H.
- , Belgium.—Dewalque, G.; Murlon, M., &c.
- , Canada.—Dawson, G. M.
- , England & Wales.—Cameron, A. C. G., &c.; Dakyns, J. R., &c.; Geikie, Sir A.; Hawkins, C. E., &c.; Jukes-Browne, A. J.; Strahan, A., &c.; Ussher, W. A. E.; Woodward, H. B., &c.
- Geological Survey, France.—Michel-Lévy, A., &c.
- , Great Britain.—Geikie, Sir A.; *see also* England & Wales, &c.
- , Hesse.—Lepsius, R.
- , Ireland.—Egan, F. W., &c.; Geikie, Sir A.; McHenry, A., &c.
- , Maryland.—Clark, W. B.; Reid, H. F.
- , Portugal.—Delgado, J. F. N., &c.
- , Prussia.—Krusch, P.
- , Scotland.—Geikie, Sir A.; Traquair, R. H.
- , Spain.—Castro, M. F. de, &c.
- , United States.—Walcott, C. D.
- text-books.—Lapparent, A. de; Suess, E.
- time.—Geikie, J.; Gilbert, G. K.; Joly, J.
- Geologists, Yorkshire.—Thompson, W. H.
- Geology, aids to its progress.—Mourlon, M.
- , applied.—Elsden, J. V., &c.; Nivoit, E.
- , astronomy &c.—Beglinger, J.
- , Canada.—Ami, H. M.
- , evolution &c. *See* Evolution.
- , forestry &c.—Graner, —.
- , health &c.—Röchling, H. A.
- , progress, 1874-1898.—Lohest, M.
- , sea-muds & historical.—Theulet, J.
- , Spain, 1898.—Puig y Larraz, G.
- Georgia (U.S.A.).—Hayes, C. W.; Nitze, H. B. C.
- Geothermal gradient. *See* Earth-temperature.
- Geotia*.—Roverso, G.
- Gephyceras*.—Maier, E.
- Gephyroceras*.—Grabau, A. W.
- German East Africa.—Bornhardt, W.; Dantz, —; Potonié, H.
- forestry & geology.—Graner, —.
- glacial gravels, &c.—Keilhack, K.
- Germany. *See* Bavaria, &c.
- Gerona (Catalonia).—Vidal, L. M.
- Gersdorffite.—Hintze, C.
- Gervillia*.—Bittner, A.; Bornhardt, W., &c.; Herrick, C. L.; Newton, R. B.; Tommasi, C.; Whiteaves, J. F.
- Geyerella*.—Schellwien, E.
- Giant's Causeway (Antrim).—Elsden, J. V., &c.
- Giant's kettles.—Trener, G. B.
- Gibraltar, Straits of.—Fischer, T.
- (Neuchâtel).—Schardt, H.
- Giessen (Hesse).—Lotz, H.; Schottler, W.
- Gilgit (Kashmir).—McMahon, C. A.
- Gillia*.—Miller, K.
- Gilsonite.—Maguire, —.
- Ginkgo*.—Nathorst, A. G.; Seward, A. C.

- Girnar, Mt. (Kathiawar).—Evans, J. W.
 Gironde (France).—Emerson, B. K.; Neuville, M.
 Gisors (Oise).—Dollfus, G. F., &c.
 Glacial deposits, Berne.—Baltzer, A.
 ———, classification.—Krishtafovich, N.
 ———, Dakota.—Gould, C. N.; Todd, J. E.
 ———, Denmark.—Madsen, V.; Munthe, H.
 ———, Durham.—Elwen, T. L.
 ———, European plants in.—Weber, C. A.
 ———, Finland.—Rosberg, J. E.
 ———, France (S.).—Trutat, E.
 ———, Germany.—Berendt, G., &c.; Gagel, C., &c.; Keilhack, K.; Klebs, R.
 ———, local origin.—Salisbury, R. D.
 ———, Maine.—Stone, G. H.
 ———, Minnesota.—Upham, W.; Winchell, N. H., &c.
 ———, Monmouthshire.—Strahan, A.
 ———, Nebraska.—Gould, C. N.
 ———, Russia.—Glinka, K.
 ———, Shropshire.—Anon. 56.
 ———, *See also* Drift, &c.
 ———, drainage, Yorkshire.—Kendall, P. F.
 ———, epoch, Bolivia.—Sundt, L.
 ———, Irish flora &.—Colgan, N.; Scharff, R. T.
 ———, meteorology &.—Reed, H. S.
 ———, erosion.—Blake, W. P.; Blandford, W. T.; Davis, W. M.
 ———, gold-placers &.—Stone, G. H.
 ———, lakes.—*See* Lakes.
 ———, moraines, Bopfinger.—Koken, E.
 ———, Switzerland.—Baltzer, A.
 ———, *See also* Moraines.
 ———, periods.—Chamberlin, T. C.; Gal- loway, W. B.; Lamarre-Olivier, A.; Manson, M., &c.; Rudzki, M. P.; Upham, W.
 ———, polishing, Magdeburg.—Schuetze, E.
 ———, Quebec.—Chalmers, R.
 ———, striae.—Emerson, B. K.
 ———, Magdeburg.—Wahnschaffe, F.
 ———, Nebraska.—Barbour, E. H.
 ———, New South Wales.—David, T. W. E.
 ———, pseudo.—Huene, F. von.
 Glaciated boulders, New South Wales.—David, T. W. E.
 Glaciation, Australia (S.).—Howchin, W.
 ———, Barmouth.—Tucker, W. T.
 ———, Finland.—Hackman, V.; Rosberg, J. E.
 ———, Germany.—Keilhack, K.
 ———, Idaho.—Stone, G. H.
 ———, Illinois.—Leverett, F.
 Glaciation, Kangaroo I.—Howchin, W.
 ———, Kvikkjokk.—Hamberg, A.
 ———, Lausanne.—Renevier, E.
 ———, New York.—Gilbert, G. K.
 ———, Quebec.—Dresser, J.
 ———, Spitsbergen.—Geer, G. de.
 ———, variations.—Forel, F. A., &c.; Reid, C.
 ———, Yukon.—Tyrrell, J. B.
 ———, *See also* Glacial deposits, &c.
 Glaciers, Alaska.—Abercrombie, W. R.; Vaux, G., &c.
 ———, Alps.—Richter, E.; Sprecher, F. W.
 ———, Antarctic.—Arctovski, H.
 ———, California.—Hershey, O. H.
 ———, gold-placers &.—Stone, G. H.
 ———, Greenland.—Drygalski, E. von.
 ———, lake-basins &.—Salomon, W.
 ———, Pyrenees.—Trutat, E.
 ———, stratification of.—Reid, H. F.
 ———, Swiss.—Baltzer, A.; Richter, E.
 Glamorganshire.—Tiddeman, R. H.
Glandina.—Miller, K.
 Glarus Alps.—Oberholzer, J.; Roth- pletz, A.
 Glaslyn (Caernarvon).—Dakyns, J. R.
 Glastonbury (Somerset).—Bulleid, A.
 Glatz (Silesia).—Guerich, G.; Leppla, A.
 Glauber's salt.—Lebrun, A.
Glaucanome.—Grabau, A. W.
 Glauconitic marl, Lake Garda.—Schaffer, F.
Gleichenites.—Seward, A. C.
 Glencoe (Natal).—Heslop, W. T.
Globiconcha.—Bæhm, J.
Globigerina.—Chapman, F.; Reade, T. M.
 Gloppa (Salop).—Anon. 56.
Glossopteris.—Bornhardt, W., &c.; Zeiller, R.
Glossotherium. *See* *Neomyiodon*.
 Gloucestershire.—Callaway, C.
Glycimeris.—Newton, R. B.; Ortmann, A. E.; Rovert, G.
Glyphioceras.—Wolterstorff, W.
Glyptostrobus.—Ward, L. F., &c.
 Gneiss, Baden.—Rosenbusch, H.
 ———, classification.—Rosenbusch, H.
 ———, Guttannen.—Bonney, T. G.
 ———, Innertkirchen.—Sauer, A.
 ———, Molucca Is.—Schroeder van der Kolk, J. L. C.
 ———, New York.—Cushing, H. P.
 Godstone (Surrey).—Whitaker, W.
 Gold, Alaska.—Schrader, F. C., &c.; Weber, —.
 ———, Australia (W.).—Becher, S. J.; Beysschlag, F., &c.; Maitland, A. G.; Mitchell, D. P.
 ———, British Guiana.—Harrison, J. B., &c.; Lungwitz, E. E.
 ———, Burma.—Stonier, G. A.
 ———, California.—Lakes, A.; Radford, G. K.
 ———, Carolina.—Lakes, A.; Nitze, H. B. C.

- Gold, Celebes Is.—Rinne, F.
 —, Chili.—Kaiser, E.; Loram, S. H.
 —, China.—Bogdanovich, K.; Cholonoki, E. von; Navarra, B.
 —, Colombia.—Woakes, E. R.
 —, Colorado.—Cross, W.; Lakes, A.; Pearce, R.; Winslow, A.
 —, deposits, vegetation &.—Lungwitz, E.
 —, distribution.—Beck, R.; Lakes, A.
 —, dredging, New Zealand.—Postlethwaite, R. H.
 —, Egypt.—Alford, C. J.; Berthelot, —.
 —, Georgia.—Nitze, H. B. C.
 —, Hungary.—Semper, M.
 —, Idaho.—Kirby, E. B.
 —, Lake of the Woods.—MacKellar, P.
 —, Klondyke.—McConnell, R. G.
 —, Madras.—Hayden, H. H.
 —, Montana.—Pearce, R.
 —, Natal.—Gray, C. J.
 —, New Brunswick.—Bailey, L. W.
 —, New South Wales.—Carne, J. E.; Coghlan, T. A.; Jaquet, J. B.; McLachlan, D. C.; Pittman, E. F.; Watt, J. A.
 —, New Zealand.—Maclaren, J. M.; Park, J.; Postlethwaite, R. H.
 —, Nova Scotia.—Faribault, E. R., &c.; Gilpin, E. J.
 —, Ontario.—McKellar, P.
 —, placers in glaciated districts.—Stone, G. H.
 —, Quebec.—Chalmers, R.
 —, Queensland.—Rands, W. H.
 —, Siberia.—Glasser, E.
 —, Tasmania.—Haber, E.; Sandeman, J. J.
 —, Transvaal.—Molengraaff, G. A. F.
 —, United States (new areas).—Chance, H. M.
 —, Urals.—Louis, D. A.
 —, Utah.—Hills, R. C.; Towers, G. W., jun., &c.
 —, Vermont.—Nitze, H. B. C.
 Gold Coast (W. Africa).—Bristowe, L. W., &c.
 Goldschmidtite.—Gaubert, P.; Palache, C.
Gomphoceras.—Grabau, A. W.
Gomphotherium.—Douglas, E.
Goniastrea.—Bornhardt, W., &c.
Goniatites.—Grabau, A. W.
Goniobasis.—Hague, A., &c.
Gonioclymenia.—Guerich, G.
Goniocoria.—Gregory, J. W.
 Goniometer.—Penfield, S. L.; Smith, G. F. H.
Goniomya.—Bornhardt, W., &c.; Burckhardt, C.
Goniophora.—Beushausen, L.; Grabau, A. W.
Gonodon.—Repelin, J.; Tornquist, A.
 Gonzen (St. Gallen).—Heim, A.
 Goosehole (Lincs).—Parrish, W. S.
 Goritz (Austria).—Kossmatt, F.
 Görtscitz (Carinthia).—Redlich, K. A.
 Goryn R. (Russia).—Laskarev, V.
Gosselettia.—Grabau, A. W.
 Gothite.—Samoilov, —.
 Gotland (Sweden).—Munthe, H.; Törnquist, S. L.
 Gothlandian.—Kerforne, F.; Malaise, C.
 Gower (S. Wales).—Tiddeman, R. H.
 Graaf Reinets (Cape Colony).—Seeley, H. G.
 Graftonite.—Gaubert, P.; Penfield, S. L.
 Grahamite.—White, I. C.
 Graian Alps. *See* Alps.
Grammoceras.—Bellini, R.
Grammysia.—Grabau, A. W.; Rowley, R. R.
Granatoerinus.—Rowley, R. R.
 Grand R. (Colo.).—Patton, H. B.
 Grande do Norte R. (Brazil).—Branner, J. C., &c.
 Granite, age of.—Rosenbusch, H.
 —, Algeria.—Duparc, L., &c.
 —, batholithic.—Emerson, B. K.
 —, Celebes Is.—Rinne, F.
 —, Colorado.—Lakes, A.; Mathews, E. B.
 —, Connecticut.—Kemp, J. F.
 —, Dakota (S.).—Hovey, E. O.
 —, Dauphiné.—Cole, G. A. J.
 —, Elba.—Achiardi, G. d'; Manasse, E.
 —, Erzgebirge.—Dalmer, K.
 —, formation of minerals in.—Stromeyer, C. E.
 —, Galicia.—Hult, R.
 —, Gilgit.—McMahon, C. A.
 —, Guisanne.—Termier, P.
 —, Ireland.—Elsden, J. V., &c.
 —, Leicestershire.—Watts, W. W.
 —, Madagascar.—Lacroix, A.
 —, Michigan.—Clements, J. M., &c.
 —, Minnesota.—Hall, C. W., &c.
 —, microscopic structure.—Berwerth, F.
 —, Molucca Is.—Schroeder van der Kolk, J. L. C.
 —, Montana.—Weed, W. H.
 —, Pyrenees.—Bresson, A.
 —, Rhenish Prussia.—Dannenberg, A., &c.
 —, United States.—Day, W. C.
 —, Urals.—Pirsson, L. V.
 —. *See also* Igneous Rocks.
 Granitic gneiss.—Milch, L.; Westgate, L. G.
 Granodiorite.—Lindgren, W.
 Granolites.—Turner, H. W.
 Granophyre-dyke, Ardnamurchan.—Busz, K.
 Granulite.—Lovisato, D.; Redlich, K. A.; Rimatori, C.
 Graphic rock-analysis.—Muegge, O.
 Graphite, Ceylon.—Coomára-Swámy, A. K.; Gruenling, F.; Weinschenk, E.

- Graphite, occurrence.—Brough, B. H., &c.; Weinschenk, E.
 —, Quebec.—Ingall, E. D.
 —, Styria.—Weinschenk, E.
 —, United States, &c.—Parker, E. W.
 Graptolites, Silurian.—Elles, G. L.; Guerich, G.; Hall, T. S.; Lapworth, H.; Törnquist, S. L.; Wood, E. M. R.
 Graptolitic shales, Scania.—Nilsson, A., &c.
 Graslitz (Bohemia).—Gæbert, C.
 Gräsberg (Dalarna).—Weibull, M.
 Graubünden, *see* Grisons.
 Gravels, Belgian.—Rutot, A.
 —, Connecticut.—Gulliver, F. P.
 —, Garonne.—Harlé, E.
 —, Germany (N.).—Keilhack, K.
 —, Hanover.—Wiegiers, F.
 —, Hertfordshire.—Lones, T. E.
 —, Hull.—Sheppard, T.
 —, Lüneburg.—Wiegiers, F.
 —, Maine.—Stone, G. H.
 —, plateau.—Abbott, L.; Chapman, F.; Harrison, B.
 —, South Kensington.—Woodward, H. B.
 —, West Wickham.—Clinch, G.
 Gravenoire (Auvergne).—Glaugaud, P.
 Gravesend (Kent).—Dibley, G. E.
 Great Britain, Geological Survey. *See* Geological Survey.
 —, erratic boulders.—Kendall, P. F.
 Great Salt Lake (Utah). *See* Salt Lake.
 Greece.—Eginitis, D.; Mitropoulos, C.
 Greek marble.—Anon. 63.
 GREEN, W. L.—Hitchcock, C. H.
 Greenland.—Chamberlin, T. C.; Drygalski, E. von; Kornerup, T.; Nathorst, A. G.
 — ice.—Muegge, O.
 — Sea deposits.—Bæggild, O. B.; Jensen, A. S.
 Green R. (U.S.A.) shales.—Eastman, C. R.; Lucas, F. A.
 Greensand, English.—Bonney, T. G.; Jukes-Browne, A. J.
 —, structure of Lower.—Sorby, H. C.
 GREENWELL, G. C.—Anon. 13.
 GREGOREV, N. V.—Tchernyshev, T.
 GREGORY, J. R.—Anon. 14.
 Grenoble (Dauphiné).—Bertrand, M., &c.
 Grenz (Grisons).—Lorenz, T.
 Gresslya.—Greppin, E.
 Greywethers. *See* Sarsens.
 Griffin Lode (Colo.).—Pearce, R.
 Griffithides.—Scupin, H.
 Grisons (Switzerland).—Lorenz, T.; Tarnuzzer, C.
 Grove Road Station (Kent).—Holmes, T. V.
 Gryphæa.—Bornhardt, W., &c.; Burckhardt, C.; Hague, A., &c.; Harris, G. D.; Hill, R. T., &c.; Mayer-Eymar, C.; Oppenheim, P.
Grypotherium.—Ameghino, F.; Woodward, A. S.
Gualteria.—Engerrand, —.
 Guarene (Picdmont).—Peola, P.
 Guatemala (C. Am.).—Bauer, M.; Sapper, C.
 GUEMBEL, W. VON.—Ammon, L. von.
Guettaria.—Gauthier, V.
 Guiana. *See* British; *see also* French, &c.
 GUIDONI, G.—Mariotti, A. A., &c.
 Guildford (Surrey).—Coomára-Swamy, A. K.
 Guisanne (Hautes-Alpes).—Termier, P.
 Gurk Valley (Carinthia).—Redlich, K. A.
 Guttannen gneiss.—Bonney, T. G.
 Gwastaden Group.—Lapworth, H.
Gymnites.—Diener, C.; Tommasi, A.
Gypsina.—Chapman, F.
 Gypsum.—Dokuchaev, V.; Dollfus, G. F., &c.; Dunstan, B.; Grimsley, G. P.; Guébbard, A.; Haworth, E.; Lemberg, J.; Masch, O.; Parker, E. W.; Rogers, A. F.; Van't Hoff, J. H., &c.; Vater, H.
Habrocrinus.—Grabau, A. W.
 Haddington (Scotland).—Brown, M. W.
 Hematite.—Fantappiè, L.
Hadrophyllum.—Grabau, A. W.
Hagiastrium.—Holmes, W. M.
 Hagen (Westphalia).—Loretz, H.
Haguia.—Hague, A., &c.
 Hain R. (Hainault).—Cornet, J.
 Hainault (Belgium).—Cornet, J.; Forir, H., &c.; Seward, A. C.; Simoens, G.; Van den Broeck, E.; Whitby, J. E.
 Halbe (Brandenburg).—Wahnschaffe, F.
Halio.—Roverto, G.
 Hall (Württ.).—Fraas, E.
 HALL, J.—Stevenson, J. J.
 HALL, T. M.—Anon. 17; Whitaker, W.
 Halle a. Saale (Saxony).—Beyschlag, F., &c.
 Halling (Kent).—Dibley, G. E.
 Hallstatt (U. Austria).—Diener, C.
 — Limestone.—Waagen, L.
Halobia.—Bittner, A.; Tommasi, A.
Halorites.—Mojsisovics, E. von Waagen, L.
Halysites.—Etheridge, R., jun.; Lambe, L. M.
Hamites.—Simionescu, J.
Hamlinia.—Behm, J.
 Hamlinite.—Prior, G. O. T.
 Hammarland Lake (Åland).—Olsson, P. H.
Hammia.—Gregory, J. W.
 Hampshire.—Geikie, Sir A.; Jukes-Browne, A. J.; Whitaker, W.
 Hand Deeps (English Channel).—Worth, R. H.
 Hanover (Germany).—Dathe, E.; Koenen, A. von; Kört, W.; Monke, H.; Mueller, G.; Schröder, H.; Weissermel, W.; Wiegiers, F.
Haplophragmium.—Chapman, F.

- Hardinghen (Pas-de-Calais).—Berton, L.; Bertrand, C. E.
 Hardystonite.—Wolff, J. E.
 Harefield (Middlesex).—Brown, G. F.
 Harmotome.—Achiardi, G. d'.
 Harney Peak (S. Dakota).—Hovey, E. O.
 Haromszek (Hungary).—Böeckh, J.
Harpagodes.—Cossmann, M.
Harpoceras.—Bellini, R.; Burckhardt, C.
 Harrington R. (N. S.).—Ami, H. M.
 HARTT, C. F.—Hay, G. U.
 Harz (Germany).—Beck, R.; Beushausen, L.; Ebert, T.; Klockmann, F.; Maier, E.; Mueller, G.; Scheibe, R.
 Hasli Valley (Berne).—Bonney, T. G.; Lugeon, M.
 Hastière (Namur).—Dorlodot, H. de; Forir, H.
Hastula.—Böhm, J.
 Hatherlite.—Löwinson-Lessing, F.
 Hátszeg (Hungary).—Nopcsa, F., jun.
 HAÜCHECOENE, W.—Mass, G.; Richtenhofen, Baron F. von; Vacek, M.
 HAUER, F. Ritter von.—Böhm, A. von; Tietze, E.; Vacek, M.; Voit, C. von; Whitaker, W.
Hauerites.—Mojsisovics, E. von.
 Hauterivian.—Baumberger, E.
 Häüyne-trachyte.—Twelvetrees, W. H., &c.
 Häüynite.—Fantappiè, L.
 Haversham (Namur).—Simons, G.
 Havre (Normandy).—Leprévost, E.
Hawlia.—Scott, D. H.
 Hayden Creek (Idaho).—Hidden, W. E.
 Haye plateau (Meurthe-et-Moselle).—Bleicher, G.
 Head.—See Rubble-drift.
 Health, geology &.—Röchling, H. A.; Wellburn, E. D.
Hederella.—Grabau, A. W.
 Heidelberg (Baden).—Dittrich, M.
Helenia.—Matthew, G. F.
Heleocharis.—Andersson, G.
Heliastrea.—Söhle, U.
Helicoprion.—Karpinski, A.
Helictites.—Mojsisovics, E. von.
Heliolites.—Lambe, L. M.
Heliophyllum.—Grabau, A. W.
Heliopora.—Söhle, U.
 Helioporidæ.—Gregory, J. W.
Helix.—Miller, K.; Pallary, P.
 —, pitted rocks.—Harlé, E.
Helix sylvana-limestone.—Rollier, L.
Helladotherium.—Vacek, M.
Helminthoidichnites.—Toll, Baron E. von; Walcott, C. D.
Heloderma.—Wieland, G. R.
 Hemel Hempstead (Herts).—Green, U.
Hemidiscors.—Roverto, G.
Hemigymnia.—Arnaud, H.
Hemipedinia.—Loriol, P. de.
Hemipristis.—Woodward, A. S.
 Heraclæa (Asia Minor).—Zeiller, R.
Heraclites.—Mojsisovics, E. von.
 Hérault (France).—Bergeron, J.
 Hercynian.—Groom, T. T.
 Herstal (Liège).—Joassart, C.
 Hertfordshire.—Coomára-Swámy, A. K.; Green, U.; Hill, W.; Lones, T. E.; Salter, A. E.; Verulam, Earl of.
 Hertingfordbury (Herts).—Coomára-Swámy, A. K.; Salter, A. E.
 Herzegovina.—Bittner, A.; Pœd, T.
 Hesbaye (Belgium).—Cornet, J.; Velge, G.
 Hesbayian.—Dewalque, G., &c.; Forir, H.; Lohest, M. &c.
 Hesse (Germany).—Beushausen, L., &c.; Beyschlag, F.; Blanckenhorn, M.; Denckmann, A.; Ebert, T.; Kayser, E.; Klockmann, F.; Kinkel, F., &c.; Jennings, A. V.; Linstow, O. von; Reinach, Baron von; Rinne, F.; Seyfried, E. von; Spandel, E.; Klemm, G.; Lepsius, R.; Schottler, W.; Wittich, E.
 Hessite.—Palache, C.
 Hessonite.—Weinschenk, E.
Heterangium.—Scott, D. H.
Heteroceras.—Harris, G. D.; Simionescu, J.
Heteroclypus.—Airaghi, C.
Heterostegina.—Chapman, F.
 Heulandite.—Spurr, J. E.
 HICKS, H.—Whitaker, W.
Hicorin.—Hague, A., &c.
 Hils Basin (Hanover).—Köenen, A. von.—Conglomerate.—Wollemann, A.
 Himalayas (Asia).—Bittner, A.; Diener, C.; Hayden, H. H.; Krafft, A. von; McMahon, C. A.; Mojsisovics, E. von; Nœtling, F.
 Hinterhermsdorf (Saxony).—Ehmi-chen, H.
Hipparion.—Boule, M.; Vacek, M.
Hippuris.—Andersson, G.
Hippurites.—Redlich, K. A.; Söhle, U.
 Hitchcockite.—Hartley, E. G. J.; Miers, H. A.; Prior, G. T.
 Hitchin (Herts).—Hill, W.
 Hobæk (Denmark).—Rordam, K., &c.
 Hodbarrow (Cumberland).—Anon. 58.
Hœferia.—Redlich, K.
 Hofmann, R.—Vacek, M.
 Hofmann, T.—Pöhlmann, R.
 Hohenlimburg (Westphalia).—Loretz, H.
 Hohensolms (Hesse).—Kayser, E.
 Hôko Is. (Formosa).—Kotô, B.
Holaster.—Loriol, P. de.
Holasterella.—Hague, A., &c.
 Holbak (Transylvania).—John, C. von.
 Holderness (Yorks).—Sheppard, T.
 Holland.—Forir, H.; Wollemann, A.
 Hollybush Conglomerate.—Groom, T.
Hologyra.—Repelin, J.
Holoptychius.—Woodward, A. S.
 Holy I. (Northumberland).—Gunn, W.
Homalonotus.—Grabau, A. W.; Schlue-ter, C.
Homalopsis.—Segerberg, K. O.; Whitcaves, J. F.
Homomya.—Hague, A., &c.

- Homotaxy, strata.—Sollas, W. J.
Hone-stones.—Parker, E. W.
Honshu (Japan).—Yamasaki, N.
Hoo, Hundred of (Kent).—Bird, C.
Hoplites.—Burckhardt, C.; Canavari, M.; Whiteaves, J. F.
Hoploparia.—Woodward, H.
Hornblendites.—Holland, T. H.
Hornera.—Gregory, J. W.
Hornsea (Yorks).—Sheppard, T.
Houyet (Namur).—Dorlodot, H. de.; Forir, H.
HUBBARD, O. P.—Hovey, E. O.
Hudson Bay (Canada).—Ochsenius, C.
Hudson R. (U.S.A.).—Jones, C. C.; Merrill, J. H.
Hull (Yorks).—Sheppard, T.
Hundesberg (Magdeburg).—Wahnschaffe, F.
Hungary.—Adda, K. von; Bœckh, H.; Halavats, J.; John, C. von; Koch, A.; Kocsis, J.; Melczer, G.; Nopcsa, F., jun.; Palfy, M.; Papp, K.; Roth, L. von.
— See also Erzgebirge, Tertiary, &c.
Hunter R. (N.S.W.).—David, T. W. E.
Huntingdonshire.—Elsden, J. V., &c.; Webb, C. B.
Huntley (Gloucester).—Callaway, C.
Huronian, Michigan.—Clements, J. M., &c.
Husledia.—Rowley, R. R.
HUXLEY, T. H.—Avebury, Lord.
Hyænarctos.—Schlosser, M.
Hyalinia.—Miller, K.
Hybodus.—Brown, C.
Hydnophoropsis.—Sæhle, U.
Hydrobia.—Sokolov, N.
Hydrology. See Water.
Hydro-magnesite.—Gambert, P.
Hydrozoa, Devonian.—Grabau, A. W.
—, Triassic.—Tornquist, A.
HYLTON, LORD.—Whitaker, W.
Hyolithellus.—Matthew, G. F.
Hyolithes.—Fox, H.; Hague, A., &c.; Matthew, G. F.; Redlich, W.; Wolterstorff, W.
Hyopotamus.—Pavlov, M.
Hyperodapedon.—Burckhardt, R.
Hypersthenic Archæan rocks.—Holland, T. H.
Hypothesis, geological.—Posnett, H. M.
Hysterites.—White, D.
Hystrix.—Vacek, M.
Ice-age.—Galloway, W. B.; Holst, N. O.; Rudzki, M. P.; Tucker, W. T.; Upham, W.
Ice-caps, Antarctic.—Arctowski, H.
—, Greenland.—Drygalski, E. von.
Iceland.—Bøggild, O. B.; Fox-Strangways, C.; Jensen, A. S.; Pjetursson, H.
Ice-scratches, pseudo.—Huene, F. von.
Ice-sheet, Greenland.—Muegge, O.
—, solar energy &c.—Goodchild, J. G.
Ichnium.—Pabst, W.; Sollas, W. J.
Ichthyodectes.—Loomis, F. B.
Ichthyosaurus.—Geinitz, E.; Lakin, M. H., &c.
Ictidosuchus.—Broom, R.
Idaho (U.S.A.).—Bell, R. N.; Kirby, E. B.; Lakes, A.; Stone, G. H.; Walcott, C. D., &c.
Idaho Springs (Colo.).—Lakes, A.
Idmonea.—Gregory, J. W.; Neviani, A.
Idocrase.—Fantappiè, L.; Heddle, M. F.
Idria (Carniola).—Kossmatt, F.
Igneous magmas. See Magmas.
— rock-series.—Harker, A.
— rocks, Abyssinia.—Prior, G. T.
—, Algeria.—Duparc, L., &c.; Gentil, L.
—, Algonkian.—Holmquist, P. J.
—, America (N.).—Weeks, F. B.
—, analysis of.—Washington, H. S.
—, Andes.—Bonney, T. G.; Burckhardt, C.
—, Anglesey.—Greenly, E.; Matley, C. A.
—, Argyllshire.—Hill, J. B., &c.
—, Austria-Hungary. See Bohemia, Granite, &c.
—, Auvergne.—Boule, M.; Glangeaud, P.; Michel-Lévy, A.
—, Baden.—Rosenbusch, H.
—, Bohemia.—Hibsch, J. E.; Redlich, K. A.
—, Brazil.—Hussak, E.
—, Brittany.—Barrois, C., &c.
—, British East Africa.—Gregory, J. W.
—, Caucasus.—Dannenberg, A.
—, Celebes Is.—Rinne, F.
—, Ceylon.—Coomára-Swamy, A. K.
—, Chili.—Machado, M. R.; Wolff, F. von.
—, China.—Michel-Lévy, A., &c.
—, classification.—Hobbs, W. H.; Lapparent, A. de; Lœwinson-Lessing, F.; Osann, A.; Rosenbusch, H.; Spurr, J. E.; Turner, H. W.
—, Colorado.—Andrews, C. I.; Cross, W.; Lakes, A.; Palmer, C. S., &c.
—, composition - diagrams.—Warth, H.
—, consolidation of mineral constituents.—Sollas, W. J.
—, Cornwall.—Fox, H.; Geikie, Sir A.
—, Dakota.—Hovey, E. O.; Irving, J. D.
—, diamonds &c.—Bonney, T. G.
—, Egypt.—Szadeczki, J.
—, Finland.—Ramsay, W.
—, graphic analysis of.—Hackman, V.; Muegge, O.
—, Hanover.—Wiegiers, F.

- Igneous rocks, inclusions.—Lacroix, A.
 —, Ireland.—Egan, F. W.;
 Elsdon, J. V., &c.; Geikie, Sir A.;
 McHenry, A.; Reed, F. R. C.;
 Seymour, H. J.
 —, Italy.—Clerici, E.; Wash-
 ington, H. S.
 —, Jersey.—Parkinson, J.
 —, Lake District.—Harker, A.
 —, Leicestershire.—Watts, W.
 W.
 —, Malvern Hills.—Groom, T. T.
 —, Mexico.—Bøse, E.
 —, Michigan.—Clements, J. M.,
 &c.
 —, microscopic structure.—Ber-
 werth, F.
 —, Minnesota.—Winchell, A. N.
 —, Molucca Is.—Schroeder van
 der Kolk, J. L. C.
 —, Nevada.—Spurr, J. E.
 —, New York State.—Kemp,
 J. F.
 —, New Zealand.—Rutley, F.
 —, Northumberland.—Gunn, W.
 —, Norway.—Holmquist, P. J.;
 Sjögren, H.; Vogt, J. H. L.; Win-
 chell, N. H.
 —, Ontario.—Barlow, A. E.
 —, phenocrysts in.—Crosby, W.
 O.
 —, phosphates.—Teall, J. J.
 H.
 —, Pyrenees.—Lacroix, A.
 —, Quebec.—Gregory, H. E.
 —, Rhatic Alps.—Bodmer-
 Beder, A.
 —, Rome.—Clerici, E.
 —, Russian Poland.—Thugutt,
 St. J.
 —, Salzkammergut.—John, C.
 von.
 —, Scotland.—Coates, H.;
 Geikie, Sir A.; Goodchild, J. G.;
 Kinahan, G. H.; Macnair, P.
 —, Siebengebirge.—John, C. von.
 —, Silesia.—Dathe, E.
 —, Somaliland.—Gennes, A. de,
 &c.
 —, Spain.—Stuart-Menteath, P.
 W.; Yarza, R. A. de.
 —, Sweden.—Holmquist, P. J.
 —, Tasmania.—Firks, W. von;
 Johnston, R. M.; Stephens, T.;
 Twelvetees, W. H., &c.; White, O.
 A., &c.
 —, titanic iron-ores & basic.—
 Vogt, J. H. L.
 —, Trinidad (Little Is. of).—
 Prior, G. T.
 —, United States.—Diller, J. S.
 —, Utah.—Tower, G. W., jun.,
 &c.
 —, Westmorland.—Rutley, F.
 —, Yellowstone National Park.—
 Hague, A., &c.
 —, *See also* Andesite, &c.
- Iguanodons, Bernissart & English
 Wealden.—Van den Broeck, E.
Ilex.—Hollick, A.
 Ilford (Essex).—Hinton, M. A. C.;
 Kennard, A. S., &c.
Illæus.—Guerich, G.
 Ile-et-Vilaine (Britanny).—Lebesconte,
 P.; Lechartier, G.
 Illinois (U.S.A.).—Dinsmore, A.; Lev-
 ertt, F.
 Illyés pond (Szovata).—Roth, L. von.
 Ilmenite.—Lacroix, A.
 Implements, flint.—Avebury, Lord;
 Blake, W. P.; Boule, M.; Breuil, —;
 Evans, Sir J.; Ferton, C.; Harrison,
 B.; Mass, G., &c.; Mello, J. M.;
 Raymond, P.; Rutot, A.; Warren,
 S. H.; Wilson, T.
 —, stone.—Avebury, Lord; Boule,
 M.; Bristowe, L. W., &c.; Cartailhac,
 E.; Gregorio, A. de; Hamy, E. T.;
 Outes, F. F.; Smith, H. I.; Virchow,
 R.
 Inchkeith I. (Firth of Forth).—Sprague,
 T. B.
 Inclusions, rock.—Lacroix, A.
 India.—Anon. 53; Bittner, A.; Cadell,
 H. M.; Davis, W. M.; Diener, C.;
 Griesbach, C. L.; Grundy, J.; Hol-
 land, T. H.; Mahon, R. H.; Nœtling,
 F.; Oldham, R. D.; Smith, F. H.
 —, French.—Cossmann, M.
 —, *See also* Burma, Himalayas, &c.
 Indian money, dolomite as.—Farrington,
 O. C.
 Indian Terr. (U.S.A.).—Taff, J. A.
 Indiana (U.S.A.).—Ashley, G. H.;
 Blatchley, W. S.; Fisher, R.; Hall,
 C. F.
 Indre (France).—Cossmann, M.; Sau-
 vage, H. E.
 Indre-et-Loire (France).—Canu, F.
 Inesite.—Farrington, O. C.
 Infusorial earth, Florida.—Parker, E.
 W.
 —, Lüneburg.—Anon. 65.
 Ingolf-Expedition.—Bøggild, O. B.
 Inland-ice, Greenland.—Muegge, O.
 Innertkirchen (Berne).—Sauer, A.
Inoceramus.—Guerich, G.; Hague, A.,
 &c.; Harris, G. D.; Jukes-Browne,
 A. J.
 Insects, Carboniferous.—Packard, A. S.
 —, soils &c.—Keilhack, K.
 —, Tertiary.—Meunier, F.
 International geological co-operation.—
 Chamberlin, T. C.; Geikie, Sir A.
 Inverness.—Blanford, W. T.; Geikie,
 Sir A.
Inversaria.—Gregory, J. W.
Involutina.—Chapman, F.
 Iodine, copper with.—Dieseldorff, A.
 Iola (Kan.).—Orton, E.
 Iolite.—Hackman, V.
 Ionian Is.—Martelli, A.
 Iowa (U.S.A.).—Barris, W. H.; Grant,
 U. S.

- Iowan.—Calvin, S.
Iphidea.—Hague, A.
 Ipswich coalfield (Queensl.).—Cameron, W. E.
 Ireland, Carboniferous island.—Martin, E. A.
 —, coalfields, &c.—Elsden, J. V., &c.
 —, flora & glaciation.—Colgan, N.; Scharff, R. F.
 —, Geological Survey. *See* Geological Surveys.
 —, peat-bogs.—Bjærting, P. R.; Johnson, T.
 —. *See also* Igneous rocks, Waterford, &c.
Iris.—Andersson, G.
 Irish elk, I. of Man.—Kermode, P. M. C.
 Iroise, Straits of (Britanny).—Thoulet, J.
 Iron, Australia (W.).—Maitland, A. G.
 —, Bosnia.—Katzner, F.
 —, Carniola.—Teller, F.
 —, chemical composition of ores.—Anon. 45.
 —, crystallography.—Osmond, F.
 —, Finland.—Tigerstedt, R. F.
 —, Great Britain.—Brough, B. H.
 —, Hodbarrow.—Anon. 58.
 —, igneous rocks &—Vogt, J. H. L.
 —, India.—Mahon, R. H.
 —, meteoric.—Holland, T. H.; Merrill, G. P.
 —, Meurthe-et-Moselle.—Bleicher, G.; Villain, P.
 —, Michigan.—Clements, J. M., &c.; Rominger, C.
 —, Minnesota.—Winchell, N. H., &c.
 —, Monmouthshire.—Strahan, A.
 —, Nassau.—Löwe, L.
 —, New Brunswick.—Bailey, L. W.
 —, Newfoundland.—Nitze, H. B. C.
 —, New South Wales.—Coghlan, T. A.; McLachlan, D. C.; Watt, J. A.
 —, New York.—Kemp, J. F.
 —, Nova Scotia.—Gilpin, E., Jun.
 —, occurrence.—Brough, B. H.
 —, Ontario.—Pope, F. J.
 —, ore minerals, Urals.—Samoilov, J.
 —, ores, origin of.—Beck, R.; Heinn, A.
 —, peat-bogs &.—Bemmelen, J. M. van, &c.
 —, Pennsylvania.—Hopkins, T. C.
 —, Russia.—Karakash, N.; Nikitin, S.
 —, St. Gallen.—Heim, A.
 —, Spa waters.—Dewalque, G.
 —, Spain.—Jones, J. A.
 —, Styria.—Ryba, F.
 —, sulphate, natural.—Scharizer, R.
 —, Sweden.—Høgbom, A. G.; Sveinonius, F., &c.
 —, Tyrol.—Blaas, J.
 —, United States.—Birkinbine, J.
 —, Utah.—Tower, G. W., jun., &c.
 Iron, Virginia.—Catlett, C.; Chance, H. M.
 —, Wales (S.).—Evans, T.
 Ironstone - veins, Neuchâtel.—Schardt, H.
 Iroquois Beach (Canada).—Coleman, A. P.
 Irwin coalfield (W. Austr.).—Maitland, A. G.
Isastræa.—Bornhardt, W., &c.; Gregory, J. W.; Tornquist, A.
Isastrocænia.—Gregory, J. W.
 Ischl (U. Austria).—Diener, C.
Ischyodus.—Ammon, L. von.
 Iserlohn (Westphalia).—Loretz, H.
 Isium (Kharkov).—Borisyak, A.; Nalivkin, V.
 Isles, inland.—Veatch, A. C.
Isocardia.—Bornhardt, W., &c.; Burekhardt, C.; Rovert, G.
Isophilina.—Grabau, A. W.
Isoëtes.—Andersson, G.
 Isostasy. *See* Gravity.
 Isser R. (Algeria).—Lamothe, L. J. B. de.
 Issoire (Auvergne).—Boule, M., &c.
 Istria.—Giraud, J.
 Italy (Austria).—Oppenheim, P.
 —. *See also* Apenmines, &c.
Itieria.—Cossmann, M.
Jackelaster.—Stuertz, B.
 JACKSON Arctic Expedition.—Pompeckj, J. F.
 Jadeite.—Fantappiè, L.; Virchow, R.
 Jan Mayen (Arctic).—Jensen, A. S.
Janeia.—Wolterstorff, W.
 JANNETAZ, E.—Michel, L.
 Japan.—Anon. 46; Davison, C.; Jimbō, K.; Kotō, B.; Omori, F.; Yamasaki, N.
 Jasmund (Rügen).—Baltzer, A.
 Jasper, Rennes.—Pavot, —.
 Java (D. E. I.).—Martin, K.; Schlumberger, C.
 Jemtland (Sweden).—Gavelin, A.; Wiman, C.
 Jersey (Channel Is.).—Parkinson, J.
 Jeypore (Madras).—Walker, T. L.
 Jisra (Kaluga).—Karakash, N.
Joannites.—Diener, C.; Mojsisovics, E. von.
 John Day formation.—Matthew, W. D.
 Johnstoneite.—MacLeod, W. A., &c.
 Joint-planes.—Blanckenhorn, M.
 Joly, Mt. (Dauphiné).—Bertrand, M., &c.
 Joplin district (U.S.A.).—Garrison, F. L.; Kirchoff, E.
 Jordanite.—Baumbauer, H.; Solly, R. H.
 Josephite. — Læwinson - Lessing, F.; Szadeczki, J.
 Joux (Vaud).—Dingelstedt, V.
Jovellania.—Kaysner, E.
Jovites.—Mojsisovics, E. von.

- Jombo, Mt. (Brit. E. Africa).—Gregory, J. W.
- Juglans*.—Hague, A., &c.; Hollick, J.
- Jukkasjärvi (Sweden).—Svenonius, F.
- Junagarh (Kathiawar).—Evans, J. W.
- Jungfrau (Bernese Alps).—Golliez, —.
- Jura, French.—Ammon, L. von; Bourgeat, —; Fournier, E.; Meunier, S.; Renevier, E., &c.
- , Swiss.—Baumberger, E.; Buxtorf, A.; Dingelstedt, V.; Loriol, P. de; Muehlberg, M.; Renevier, E., &c.; Schardt, H.; Stuebin, K.
- Jurassic, Africa (E.).—Bornhardt, W., &c.
- , Alaska.—Pompeckj, J. F.
- , Andes.—Burckhardt, C.
- , Apennines.—Bonarelli, G.; Fucini, A.
- , Austrian Alps.—Diener, C.
- , Baden.—Loriol, P. de; Schalch, F.
- , Basilicata.—Greco, B.
- , Bavaria.—Huene, F. von; Söehle, U.
- , Belgium.—Van den Broeck, E.
- , Borneo.—Vogel, F.
- , Calabria.—Stefano, G. di.
- , Cambridgeshire.—Wedd, C. B.
- , Cotteswold Hills.—Buckman, S. S.
- , Cutch.—Gregory, J. W.
- , Dakota.—Darton, N. H.
- , France.—Bourgeat, —; Cossmann, M.; Janet, L.; Lennier, G.; Skrodzki, J.
- , —. *See also* Congress, &c.
- , Franz Josef Land.—Nathorst, A. G.
- , Hungary. — Nopcsa, F., jun.; Schaffer, F.
- , Huntingdonshire.—Wedd, C. B.
- , King Charles Land.—Pompeckj, J. F.
- , Lincoln.—Walton, F. F.
- , Lombardy.—Mariani, E.
- , Madagascar.—Boule, M.
- , Piedmont.—Franchi, S.
- , Moravia.—Chapman, F.
- , Sardinia.—Pampaloni, L.
- , sea, N. American.—Logan, W. N.
- , Spain.—Calderon, S.
- , Stramberg clay fauna.—Remeš, M.
- , Switzerland.—Greppin, E.; Hug, O.; Loriol, P. de; Muehlberg, M.; Renevier, E., &c.; Rollier, L., &c.; Stuebin, K.
- , Tyrol.—Böse, E., &c.
- , Umbria.—Bellini, R.
- , Venetia.—Bettou, A.
- , Württemberg.—Fraas, E.; Holland, F.
- , Wyoming.—Knight, W. C.; Osborn, H. F.; Ward, L. F.
- , Yellowstone National Park. — Hague, A., &c.
- , *See also* Lias, &c.
- Jussarö I. (Finland).—Tigerstedt, A. F.
- Jütland (Denmark).—Stolley, E.
- Juvavian.—Zittel, K. A.
- Juvavites*.—Mojisovics, E. von.
- Kahla (Altenburg).—Naumann, E.
- Kainosite.—Nordenskjöld, Baron A. E.
- Kaiping coalfield (N. China).—Webster, T.
- Kalgoorlie (W. Austr.).—Becher, S. J.; Krause, F. M.
- Kallilite.—Hintze, C.
- Kaluga (Russia).—Karakash, N.
- Kalugyer (Hungary).—Siegmet, C.
- Kalundborg (Denmark).—Rordam, K., &c.
- Kanloops, Lake (British Columbia).—Monckton, G. F.
- Kangaroo I. (S. Austr.).—Howchin, W.
- Kansas (U.S.A.).—Adams, G. I.; Beecher, C. E.; Beede, J. W.; Bushong, F. W.; Gould, C. N.; Haworth, E.; Jones, A. W.; Keyes, C. R.; Loomis, F. B.; Orton, E.; Rogers, A. F.; Sellards, E. H.; Williston, S. W.
- Kaolin.—Salle, E.
- Kaprun (Austria).—Fugger, E.
- Karawankas Alps (Austria).—Teller, F.
- Karharbari coalfield (Bengal).—Cadell, H. M.
- Karikal (S. India).—Cossmann, M.
- Karoo Beds.—Anon. 46; Bornhardt, W., &c.; Broom, R.
- Karst (Austria).—Moser, L. K.
- Kashmir (Asia).—Diener, C.; McMahon, C. A.
- Kathiawar (India).—Evans, J. W.
- Kellaways saurians.—Sheppard, T.
- Kellerwald (Hesse).—Beushausen, L., &c.; Denckmann, A.
- Kellia*.—Harris, G. D.
- Kellwasser Limestone.—Beushausen, L.
- Kenley (Surrey).—Dibley, G. E.
- Kennet R. (Wilts, &c.).—Buckman, S. S.
- Kent.—Abbott, L.; Case, E.; Dibley, E. G.; Dowker, G.; Lamplugh, G. W.; McDakin, S. G.; Mello, J. M.; Turner, H. E.; Rowe, A. W., &c.; Rutot, A.; Seeley, H. G.; Whitaker, W.; Whitehead, C.
- Kentallenite.—Hill, J. B., &c.
- Kentucky (U.S.A.).—Walcott, C. D., &c.
- Kenya, Mt. (British E. Africa). — Gregory, J. W.; Mackinder, H. J.
- Kenyte.—Gregory, J. W.
- Kerosene-shale, New South Wales.—Bertrand, C. E.
- Kersantite.—Seymour, H. J.
- Kerunia*.—Mayer-Eymar, C.
- Kesen (Japan).—Davison, J. M.
- Keswick (Cumberland).—Marr, J. E., &c.
- Kettering (Northants).—Blake, J. F.
- Kettle Point (Ontario).—Daly, R. A.
- Kharkov, Gov. (Russia).—Borisyak, A.; Nalivkin, V.
- Kiedrich mineral-springs (Nassau).—Fresenius, H.
- Killiney Park (Co. Dublin).—O'Reilly, J. P.

- Kilsyth (Stirling).—Anon. 60.
 Kimeridge, Seine-Inférieure.—Lennier, G.
 Kinderhook formation.—Keyes, C. R.
 King Charles Land (Spitsbergen).—
 Lindström, G.; Nathorst, A. G.;
 Pompeckj, J. F.
 Kingston (Surrey).—Monckton, H. W.
Kirkbya.—Ulrich, E. O.
 Kitchen-midden, Inchkeith.—Sprague,
 T. B.
 Klar R. (Svealand).—Hollender, A.
 'Klippen,' Austria.—Abel, O.
 —, Switzerland.—Tobler, A.
Kloodenia.—Canavari, M.
 Klondyke (N.W. Canada).—McConnell,
 R. G.; Tornquist, A.
Kobya.—Gregory, J. W.
 Kochendorf (Württ.).—Koken, E.
 Kola Peninsula (Finland).—Knipovich,
 N.; Ramsay, W.
 Kolozsvár (Hungary).—Koch, A.
 Komaron (Hungary).—Horusitzka, H.
 Konawaruk R. (British Guiana).—Harrison,
 J. B., &c.
 Kongsberg (Norway).—Beck, R.
 Koninckinidæ.—Bittner, A.
 Konká R. (Tauris).—Sokolov, N.
 Korynite.—Hintze, C.
 Kostaninik (Servia).—Beck, R., &c.
 Kraubat (Upper Styria).—Ryba, F.
 Kremenitz (Volhynia).—Laskarev, V.
 Kulaite.—Washington, H. S.
 KŮSTA, J.—Želízko, J. V.
Kutorgina.—Matthew, G. F.
 Kuusamo (Finland).—Hackman, V.
 Kuznetsk (Siberia).—Glasser, E.
 Kvikkjokk Mt. (Sweden).—Hamburg,
 A.; Holmquist, P. J.
 Kyanite.—Heddle, M. F.; Weinschenk,
 E.
 Labradorite.—Harker, J.
 Labyrinthodonts, Tasmanian.—Twelve-
 trees, W. H., &c.
Lacazina.—Schlumberger, C.
Laccopteris.—Seward, A. C.
Lacuna.—Murdoch, R.
 Ladoga L. (Finland).—Ailio, J.; Rosenberg,
 J. E.
 Ladysmith (Natal).—Heslop, W. T.
 Laekenian.—Velge, G.
Laganum.—Oppenheim, P.
Lagarocrinus.—Jækel, O.
Lagena.—Chapman, F.; Reade, T. M.;
 Worth, R. H.
 Lagomorpha, fossil.—Major, C. I. F.
 Lagonegro (Basilicata).—Greco, B.
Lagopsis.—Major, C. I. F.
 Lagoriolite.—Gaubert, P.
 Lahn R. (Germany).—Holzapfel, E.
 Lake District.—Marr, J. E., &c.
 Lake-on-the-Mountain (Ont.).—Drummond,
 A. T.
 Lake of the Woods (Ont.).—McKellar,
 P.
 — Superior. See Superior, &c.
 — village, Glastonbury.—Bulleid, A.
 —, Sand-le-Mere.—Sheppard, T.
 Lakes, Cumberland.—Marr, J. E., &c.
 —, Four Cantons.—Heim, A.; Tobler,
 A.
 —, Iroquois ancient.—Coleman, A. P.
 —, mud deposition.—Heim, A.
 —, New York glacial.—Fairchild, H.
 L.
 —, origin of.—Marr, J. E.
 —, Snowdon.—Dakyns, J. R.
 —, Ume glacial.—Gavelin, A.
Lambertia.—Oppenheim, P.
Lamdaconus.—Roth, S.
 Lamellibranchiata, Cambrian.—Hague,
 A., &c.; Matthew, G. F.; Redlich,
 K. A.
 —, Carboniferous. — Beyschlag, F.,
 &c.; Hague, A., &c.; Hind, W.;
 Packard, A. S.; Taff, J. A.; Weller, S.
 —, Cretaceous.—Bæhm, G.; Bæhm,
 J.; Bornhardt, W., &c.; Burckhardt,
 C.; Hague, A., &c.; Hill, R. T., &c.;
 Inkeller, H.; Jukes-Browne, A. J.;
 Krause, P. G.; Longhi, P.; Mayer-
 Eymar, C.; Redlich, K. A.; Schaffer,
 F.; Simionescu, J.; Whiteaves, J. F.;
 Wollemann, A.
 —, Devonian.—Beushausen, L.; Grabau,
 A. W.; Guerich, G.; Kayser, E.;
 Lotz, H.
 — hinges.—Borisysak, A.; Nætling,
 F.
 —, Jurassic.—Angelis d'Ossat, G. de,
 &c.; Bornhardt, W., &c.; Burckhardt,
 C.; Greco, B.; Greppin, E.;
 Hague, A., &c.; Huene, F. von; Loriol,
 P. de; Philippi, E.; Schie, U.;
 Vogel, F.
 —, morphology of.—Philippi, E.
 —, Permian.—Herrick, C. L.
 —, Permo-Carboniferous.—Diener, C.;
 Enderle, J.; Herrick, C. L.
 —, Quaternary.—Baker, F. C.; Knipovich,
 N.; Newton, R. B.; Pallary,
 P.; Van Ertborn, Baron O.
 —, Silurian.—Ami, H. M.; Guerich,
 G.; Philippi, E.
 —, Tertiary.—Angelis d'Ossat, G. de,
 &c.; Bauer, K.; Blanckenhorn, M.;
 Bœckh, H.; Dautzenberg, P.; De-
 grange-Touzain, —; Dollfus, G. F., &c.;
 Gorjanovič-Kramberger, K.; Gregorio,
 A. de; Gregory, J. W.; Harris, G.
 D.; Jensen, A. S.; Krause, P. G.;
 Meli, R.; Murdoch, R.; Nelli, B.;
 Oppenheim, P.; Ortmann, A. E.;
 Rovert, G.; Sokolev, N.; Stefano,
 G. de; Tate, R.; Ugolini, R.;
 Vincent, E.
 —, Triassic.—Angelis d'Ossat, G. de,
 &c.; Benecke, E. W.; Bittner, A.;
 Emerson, B. K.; Koken, E.; Mariani,
 E.; Newton, R. B.; Philippi, E.;
 Repelin, J.; Salomon, W.; Tommasi,
 A.; Tornquist, A.
Lamna.—Williston, S. W.
 Lamprey, Devonian.—Dean, B.
Lamprosaurus.—Schrammen, A.
Lanarkia.—Traquair, R. H.

- Lanarkshire coalfield.—Anon. 43.
 Land-forms, torsion &.—Gordon, M. M. O.
 ———, Tuscan sedimentary rocks.—Taramelli, T.
 ——— subsidence.—Hull, E.
 ——— upheaval.—Ochsenius, C.
 Landeck (Silesia).—Dathe, E.
 Landenian.—Meunier, F.
 Landes (France).—Fabre, L. A.
 Landeshut (Silesia).—Wysogorski, J.
 Landslip, Glarus prehistoric.—Oberholzer, J.
 ———, Leire.—Hall, W. J.
 ———, Quebec.—Dawson, G. M.
 Land-surface, man &.—Mill, H. R.
 Langhian.—Schaffer, F.
Lanistes.—Mayer-Eymar, C.
 Laon (Aisne).—Gosselet, J.; Ladrière, J.
 Lapland minerals.—Nordenskjöld, Baron A. E.
 La Plata Mts (Colo.).—Lakes, A.
 Laramie coal, Colorado.—Meade, F.
Lariosaurus.—Schrammen, A.
 Larnaca (Cyprus).—Bellamy, C. V.
 LARTET, L.—Anon. 17; Whitaker, W.
Lasanius.—Traquair, R. H.
 Lasur-oligoclase.—Jeremejev, P. von.
Latimeandra.—Gregory, J. W.; Sæhle, U.
Latirus.—Krause, P. G.; Newton, R. B.
Laubeocrinus.—Bather, F. A.
Laurinoxylon.—Hague, A., &c.
Laurus.—Hague, A., &c.; Hollick, A.
 Lausanne (Switzerland).—Renevier, E.
 Lauter Valley (Rh. Bavaria).—Bayberger, F.
 Lavas, Great Basin Region (Nev.).—Spurr, J. E.
 ———. See also Igneous rocks.
Lavispira.—Harris, G. D.
 Laziale volcano (Romagna).—Verri, A.
 Lead, Australia (W.).—Maitland, A. G.
 ———, glance.—Hintze, C.
 ———, Kansas & Missouri.—Stevens, H. J.
 ———, New South Wales.—Coghlan, T. A.
 ———, Tasmania.—Haber, E.
 ———, United States.—Kirchoff, C.
 Leadhillite.—Artini, E.
Leaia.—Beyschlag, F., &c.
 Leasowe (Lancashire).—Reade, T. M.
 Leau (Brabant).—Meunier, F.
 Lebanon (Syria).—Bøhm, J.
Leda.—Böckh, H.; Greppin, E.; Harris, G. D.; Loriol, P. de; Wollemann, A.
Legumen.—Harris, G. D.
Leguminosites.—Hague, A., &c.
 Leicester Lit. & Phil. Soc., Geol. Section 1849-1900.—Hall, W. J.
 Leicestershire.—Fox-Strangways, C., &c.; Paul, J. D.; Watts, W. W.
 Lehesten (Meiningen).—Zimmermann, E.
 Lehigh (Ind. Terr.).—Taff, J. A.
Leiocidaris.—Oppenheim, P.
Leiopteria.—Grabau, A. W.
Leiorhynchus.—Grabau, A. W.
Leiosoma.—Harris, G. D.
 Leipzig (Saxony).—Zimmermann, E.
 Leire (Leicester).—Hall, W. J.
 Lemurs, fossil.—Grandidier, G.
 Lens (Pas-de-Calais).—Lafite, H.
Leperditia.—Grabau, A. W.; Lotz, H.; Schmidt, F.
Lepidocyclina.—Douvillé, H.
Lepidocystis.—White, D.
Lepidodendron.—Abbado, M.; Scott, D. H.; White, D.; Zeiller, R.
Lepidophloios.—Abbado, M.; Scott, D. H.; Seward, A. C.; White, D.
Lepidophyllum.—Abbado, M.; White, D.
Lepidosteus.—Eastman, C. R.
Lepidostrobus.—White, D.
 Lepontine Alps. See Alps.
Leptobolus.—Matthew, G. F.
Leptolepis.—Woodward, A. S.
Leptomaria.—Cossmann, M.
Leptoria.—Andrews, C. W., &c.
Leptostrobus.—Ward, L. F., &c.
Leptostyrax.—Williston, S. W.
 Leptynite.—Holland, T. H.
Lepus.—Bosco, C.
 Lesina I. (Dalmatia).—Sæhle, U.
 Lesse R. (Namur).—Dorlodot, H. de; Van den Broeck, E.
 Lessines (Hainault).—Whitby, J. E.
 Leucite.—Clarke, F. W., &c.; Washington, H. S.
 ———, basalt.—Buecking, H.
 Leucospheinite.—Gaubert, P.
 Leucotephrite.—Piolli, G.
 LEUZE, A.—Rettich, A.
Levifusus.—Harris, G. D.
 Lherz (Ariège), & lherzolite.—Lacroix, A.
 Liakov I. (Siberia).—Diener, C.; Toll, Baron E. von.
 Lias, Apennines (Central).—Bonarelli, G.; Fucini, A.
 ———, Baden.—Schalch, F.
 ———, Bernese Alps.—Hug, O.
 ———, Briançonnais.—Kilian, W.
 ———, Calabria.—Stefano, G. di.
 ———, Lombardy.—Mariani, E.
 ———, Hungary.—Schaffer, F.
 ———, Jura.—Muehlberg, M.; Stuebin, K.
 ———, Lincoln.—Walton, F. F.
 ———, Madagascar.—Zeiller, R.
 ———, Sicily.—Seguenza, L.
 ———, Spain.—Bergeron, J.; Calderon, S.
 ———, Stockton.—Lakin, M. H., &c.
 ———, Swabia.—Holland, F.
 ———, Tyrol.—Böse, E., &c.
 ———, Umbria.—Bellini, R.
 ———, Warwick.—Lakin, M. H., &c.
 Libyan Desert (Egypt).—Dewitz, J.
Lichenalia.—Grabau, A. W.
 Liège (Belgium).—Destinez, P.; Dewalque, G.; Forir, H.; Joassart, C.; Lohest, M., &c.; Malaise, C.
 Liévin (Pas-de-Calais).—Gosselet, J.; Rutot, A.

- Lignite, Bosnia & Herzegovina.—Pœd, T.
 —, Dalmatia.—Kœnig, A.
 —, experimental formation of.—Arth, C.
 —, Madagascar.—Zeiller, R.
 —, Moscow.—Nikitin, S.
 —, Sarlat.—Delas, J.
 —, Switzerland.—Letsch, E.
 —, Transylvania.—Schlosser, M.
 —, Vicenza.—Velio, Z.
 Lignitic beds, Louisiana.—Harris, G. D.
 Liguria (Italy).—Franchi, S.; Guidoni, G.; Issel, A.; Rovert, G.
 Lille (Flanders).—Pesez, —, &c.
 Lillia.—Bellini, R.
 Lima.—Bittner, A.; Hague, A., &c.; Harris, G. D.; Jukes-Browne, A. J., &c.; Loriol, P. de; Nelli, B.; Tornquist, A.
 Lima (Peru).—Raimondi, A.
 Limæa.—Burckhardt, C.
 Limagne, La (Auvergne).—Giraud, J.; Michel-Lévy, A.
 Limbourg (Belgium).—Forir, H.; Mourlon, M.
 Limburgite.—Goodchild, J. G.; Prior, G. T.; Schotter, W.
 Limestone, arsenic.—Scheibe, R.
 —, Carboniferous.—Barnes, J., &c.; Dorlodot, H. de; Gunn, W.; Lafite, H.; Strahan, A.
 —, Christmas I.—Andrews, C. W., &c.
 —, derived.—Sollas, W. J.
 —, Devonian.—Lotz, H.
 —, encrinital.—Sjœgren, H.
 —, Formosa.—Newton, R. B., &c.
 —, Kathiawar (mechanically formed).—Evans, J. W.
 —, microphotographs.—Hovelacque, M.
 —, Persian Palæozoic.—Newton, R. B.
 —, pitted by *Helix*.—Harlé, E.
 —, Scandinavian Palæozoic.—Sjœgren, H.
 —, Sinai.—Chapman, F.
 —, structure of.—Rosenbusch, H.
 —, United States.—Day, W. C.
 —, Yorkshire.—Elsden, J. V., &c.
 —. See also Caverns, &c.
 Limicolaria.—Angelis d'Ossat, G. de, &c.
 Linnæus.—Miller, K.
 Limnocardium.—Gorjanovič-Kramberger, K.
 Limonite.—Hopkins, T. C.; Manasse, E.
 Limopsis.—Rovert, G.; Vincent, E.
 Limulus.—Packard, A. S.
 Limurite.—Twelvetrees, W. H., &c.
 Lincolnshire.—Griffith, P.; Jukes-Browne, A. J., &c.; Parrish, W. S.; Sheppard, T., &c.; Walton, F. F.; Worley, W. F.
 Lindener Mark (Giessen).—Lotz, H.
 LINDLEY, W.—Anon. 18.
 Lingula.—Bittner, A.; Grabau, A. W.; Guerich, G.; Huene, F. von.
 Lingulella.—Diener, C.
 Lingulina.—Chapman, F.
 Linnhe, Loch (Argyll).—Hill, J. B., &c.
 Linograptus.—Guerich, G.
 Linopterus.—White, D.; Zeiller, R.
 Linthia.—Oppenheim, P.
 Linuparus.—Woodward, H.
 Liorhynchus.—Hague, A., &c.
 Liostracus.—Hague, A., &c.; Toll, Baron E. von.
 Liotia.—Ortmann, A. E.
 Lipari Is.—Angelis d'Ossat, G. de.
 Liparite.—Duparc, L., &c.
 Lippehne (Brandenburg).—Michael, R.
 Lisbon earthquake, 1755.—Suess, F. E.
 Lisieux (Normandy).—Skrodzki, J.
 Lissochilus.—Bohm, J.
 Listracanthus.—Wolterstorff, W.
 Litharæa.—Gregory, J. W.
 Lithocampe.—Holmes, W. M.; Vinassa de Regny, P. E.
 Lithodomus.—Rovert, G.
 Lithoidite.—Ordóñez, E., &c.
 Lithopium.—Holmes, W. M.
 Lithopora & Lithothamnium.—Tornquist, A.
 Lithuanian gravel.—Schmidt, F.
 Litsea.—Hague, A., &c.
 LITTLE, T. D.—Anon. 19.
 Littlefield Lake (Mich.).—Davis, C. A.
 Littoral drift.—Wheeler, W. H. See also Coast, &c.
 Littorina.—Cossmann, M.; Oppenheim, P.
 —, clays, Gotland.—Munthe, H.
 —, sea shore-lines.—Ailio, J.
 Liverpool (Lancs).—Aldridge, E. C.; Parry, J.; Street, A. W.
 Livornese Mts. (Tuscany).—Salle, E.
 Lizards, cervical vertebræ.—Osborn, H. F.
 Llanberis Pass (N. Wales).—Filer, F. E.
 Llyn Llydaw (Caernarvon).—Dakyns, J. R.
 Loam. See Soils.
 Löbau (Russian Poland).—Thugutt, St. J.
 Lob-nor (Tibet).—Hedin, S.
 Lochinvar (N.S.W.).—David, T. W. E.
 Lochs, Scottish freshwater.—Murray, Sir J., &c.
 Lochy, Loch (Inverness).—Blanford, W. T.
 Locknesjön (Jemtland).—Wiman, C.
 Loculipora.—Grabau, A. W.
 Lodanella.—Schlueter, C.
 Loess, Belgium.—Rutot, A.
 —, Dakota.—Todd, J. E.
 —, Kansas.—Calvin, S.
 —, Minnesota.—Hall, C. W., &c.
 —, Missouri.—Hershey, O. H.
 —, Montana.—Shaler, N. S.
 —, origin of.—Tutkovski, P.; Walther, J.
 —, Swabia.—Koken, E.
 —. See also Drift, &c.

- Lofoten Is. (Norway).—Vogt, J. H. L.
 Loire R. (France).—Janet, L.
 Loire coalfield (France).—Coste, —, &c.;
 Grand'Eury, F. C.; Leriche, M.
 Lombardy (Italy).—Bonarelli, G.; Brugnattelli, L.; Mariani, E.; Peola, P.; Porro, C.; Tacconi, E.; Taramelli, T.; Tommasi, C.
Lonchocephalus.—Hague, A., &c.
Lonchosaurus.—Ameghino, F.
 London Basin.—Whitaker, W.
 — Clay, Schleswig-Holstein.—Stolley, E.
 —, deep borings.—Martin, E. A.; Sclater, P. L.
 Long I. (N. Y.).—Merrill, F. J. H.
 Long Mt. (Montgomery).—Elles, G. L.; Wood, E. M. R.
 Longford (Ireland).—Egan, F. W., &c.
 Longmyndian.—Callaway, C.
Lonsdaleia.—Enderle, J.
 Loon Lake (N. Y.).—Cushing, H. P.
Lophosmia.—Gregory, J. W.
 Lorenzite.—Gaubert, P.
 Lorraine (French).—Bleicher, G., &c.; Loricé, J.; Van den Broeck, E.; Villain, P.
 Lot (France).—Martel, E. A.; Michel-Lévy, A., &c.
Lotorium.—Rovert, G.
 Lötzen (E. Prussia).—Gagel, C.; Kaunhowen, F.; Klautzsch, A.; Krause, P. G.
 Louisiana (Mo.).—Rowley, R. R.
 Louisiana (U.S.A.).—Harris, G. D.; Hollick, A.; Lucas, A. F.; Ries, H.; Romeyn, H.; Veatch, A. C.
 Loup Fork (Mont.).—Douglass, E.
 — formation.—Matthew, W. D.
 Lourdes (Hautes-Pyrénées).—Ritter, —.
 Low Archipelago (Pacific).—Agassiz, A.
Loxococoncha.—Lienenklaus, E.
Loxonema.—Grabau, A. W.; Hague, A., &c.; Koken, E.; Tommasi, C.; Tornquist, A.; Yakovlev, N.
 Lozère (France).—Boule, M., &c.; Martel, E. A.
 Lucerne (Switzerland).—Heim, A.; Tobler, A.
Lucina.—Dollfus, G., &c.; Greppin, E.; Oppenheim, P.; Rovert, G.; Sokolov, N.; Wollemann, A.
 Lucknow (N.S.W.).—Pittman, E. F.
 Lude (Sarthe).—Monmarché, M.
 Ludlow (Salop).—Elles, G. L.; Wood, E. M. R.
 Lumbres (Normandy).—Gosselet, J.
Lunatia.—Vogel, F.
 Lüneburg (Hanover).—Anon. 65; Wiegers, F.
Lunulicardium.—Grabau, A. W.
 Lunz sandstone.—Bittner, A.
 Lure, Montagne de (Provence).—Kilian, W.
Lutraria.—Bæckh, H.
 Luxemburg (Belgium).—Raisin, C. A.
 Luzon (Philippine Is.).—Anon. 35.
 Lycopod seed-like fruit.—Scott, R. D.
Lycopodites.—Seward, A. C.
Lycopus.—Andersson, G.
 Lyell, Mt. (Tasmania).—Muir, J. J.
Lyellia.—Lambe, L. M.
Lyginodendron.—Scott, D. H.
Lygodium.—Hague, A., &c.
 LYNCH'S (W. F.) Syrian Collection.—Beecher, C. E.
 Lyndhurst (N.S.W.).—Pittman, E. F.
 Lynn Canal (Alaska).—Nordenskjöld, O.
 Lyon (Rhône).—Depéret, C.
Lyopora.—Lambe, L. M.
Lytoceras.—Bellini, R.; Bonarelli, G.; Burckhardt, C.; Fucini, A.; Hug, O.; Simionescu, J.
Lytoloma.—Wieland, G. R.
Lyra.—Remeš, M.
Lyriopecten.—Grabau, A. W.; Philippi, E.
Lyttonia.—Diener, C.
 McAlester (Indian Terr.).—Taff, J. A.
 McCoy, Sir F.—Whitaker, W.
 MACKINNON, A. K.—Anon. 20.
 Macedonia (Turkey).—Cvijić, J.
Machæracanthus.—Guerich, G.
Machairodus.—Jesup, M. K.
Machomya.—Bornhardt, W., &c.
 Macigno. See Argillaceous sandstone.
 Macombe's Country (S. of Zambesi).—Peters, C.
Macrochilina.—Rowley, R. R.; Yakovlev, N.
Macrochlamys.—Philippi, E.
Macrocypris.—Lienenklaus, E.
Macrodon.—Grabau, A. W.; Greppin, E.
Macrostachya.—Scott, D. H.
Maetra.—Bornhardt, W., &c.; Harris, G. D.; Murdoch, R.; Sokolov, N.
 Madagascar.—Boule, M.; Bureau, E.; Douvillé, H.; Grossouvre, A. de; Haug, E.; Lacroix, A.; Major, C. I. F.; Zeiller, R.
 Madison (Wisc.).—Bushong, F. W.
 Madras (India).—Hayden, H. H.; Holland, T. H.; Smith, F. H.; Walker, T. L.
Madrepora.—Bornhardt, W., &c.
 Maestrichtian.—Cornet, J.
Mæandrina.—Andrews, C. W. &c.; Söhle, U.
Magasella.—Tate, R.
 Magdeburg (Germany).—Schuetze, E.; Van't Hoff, J. H.; Wahnschaffe, F.; Wolterstorff, W.
 Magmas, igneous.—Læwinson-Lessing, F.; Teall, J. J. H.
 Magmatic differentiation, U.S. Copper-bearing Series.—Lane, A. C.
 Magnetite.—Fantappiè, L.; Hintze, C.; Pope, F. J.; Vogt, J. H. L.
Magnolia.—Hague, A., &c.; Hollick, A.
 Maiden Bradley (Wilts).—Jukes-Browne, A. J.
 Maine (U.S.A.).—Burr, H. T.; Lord, E. C. E.; Stone, G. H.

- Mainz (Germany).—Reichenau, W. von; Spandel, E.
 Majevica Mts. (Bosnia).—Katzer, F.
 Majorca (Balearic Is.).—Vuillier, G.
 Makum (Assam).—Harris, G. E.
Malapennia.—Hague, A., &c.
 Malay Peninsula.—Newton, R. B.
 Malayan Archipelago.—*See* Celebes, 'Siboga,' &c.
 Malfidano (Sardinia).—Millosevich, F.
 Malham (Yorks).—Tiddeman, R. H.
 Malmedy (Rh. Prussia).—Grebe, H.
 Malmhus (Scania).—Hennig, A.
 Malvern Hills.—Chapman, F.; Groom, T. T.
 Malvernian.—Callaway, C.; Groom, T. T.
 Mammalia, Cretaceous.—Ameghino, F.
 —, origin of molars.—Ghigi, A.
 —, Quaternary.—Ameghino, F.; Avebury, Lord; Boule, M.; Brandes, G.; Cocchi, J.; Delheid, E.; Ficheur, E., &c.; Gaudry, A.; Grandidier, G.; Guenther, R. T.; Hauthal, R.; Hinton, M. A. C.; Jentzsch, A.; Karrer, F.; Loennberg, E.; Lydekker, R.; Major, C. I. F.; Mercerat, A.; Möller, H.; Moreno, F. P., &c.; Mourlon, M.; Nehring, A.; Portis, A.; Robarts, N. F.; Sheppard, T.; Stefano, G. di; Steffen, H.; Stehlin, H. G.; Woodward, A. S.
 —, reconstruction of fossil.—Andreae, A.
 —, Tertiary.—Ameghino, F.; Andrews, C. W.; Böeckh, H.; Bosco, C.; Boule, M.; Douglass, E.; Duns, —; Gaillard, C.; Harmer, S. F.; Hay, O. P.; Hofmann, A.; Pavlov, M.; Malaguin, A.; Mercerat, A.; Niezabitowski, E. L.; Reichenau, W. von; Roth, S.; Stefanescu, G.; Stefano, G. di; Schlosser, M.; Schröder, H.; Stirling, E. C., &c.; Vacek, M.; Wortman, J. L.
 Mammalian ancestry.—Kingsley, J. S.
 Mammoth Cave (Ky.).—Hovey, H. C.
 —, Hungary.—Halaváts, J.
 —, Namur.—Mourlon, M.
 —, Scotland.—Duns, —.
 —, Staten I.—Hollick, A.
 Man, antiquity of.—Avebury, Lord.
 —, Calaveras skull.—Blake, W. P.
 —, Holderness prehistoric.—Sheppard, T.
 —, land-surface &c.—Mill, H. R.
 —, Palaeolithic.—Evans, Sir J.; Johnson, J. P.
 —, Quaternary.—Maggi, L.; Möller, H.; Rutot, A.; Sheppard, T.
 Man (Isle of).—Elsden, J. V., &c.; Kermode, P. M. C.; Lamplugh, G. W.
 Manasarowar, Lake (Tibet).—Strachey, Sir R.
 Manchester (Lancs) Museum.—Seward, A. C.
 Manchuria (China).—Cholnoki, E. von.
 Mandalay (Burma).—Datta, P. N.
 Mandurama (N.S.W.).—Hall, T. S.
 Manganese, Brazil.—Branner, J. C.; Scott, H. K.
 —, Carniola.—Teller, F.
 —, Gotland.—Weibull, M.
 —, nodules, oceanic.—Agassiz, A.
 —, Pyrenees.—Klockmann, F.
 —, Saratov Gov.—Nikitin, S.
 —, United States.—Birkinbine, J.
 Manganocalcite.—Breusing, E.
 Mangola I. (D. E. I.).—Boehm, G.
 Manitoba (Canada).—Burman, W. A.
 Manitou (Colo.).—Crosby, W. O.
 Mans, Le (Sarthe).—Grossouvre, A. de.
 Mansfeld (Merseburg).—Beyschlag, F.
Manticoceras.—Grabau, A. W.
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 Maps, agrogeological.—Horusitzki, H.
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- AFRICA (EAST).
 German East. $\frac{1}{500,000}$. 1900.—Bornhardt, W., &c.
 Somaliland. 1 inch = 46.3 miles. 1900.—Gregory, J. W.
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 Lake Rudolf, &c. $\frac{1}{3,000,000}$. 1900.—Angelis d'Ossat, G. de.
 Kenya, Mt. 1 inch = 1 mile. 1900.—Gregory, J. W.
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 AFRICA (SOUTH).
 Cape, Orange River, and Transvaal Colonies. Dwyka Coal-Measures outcrop. $1\frac{1}{4}$ inches = 69 miles. 1900.—Dunn, E. J.
 Karoo Beds. 1900.—Anon. 46.
 Natal Coalfields. 1 inch = 5 miles & 1 inch = 9 miles. 1900.—Heslop, W. T.
 Orange River Colony, Bloemfontein. 1900.—Skinner, B. M.
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- , —, — (S.E.). Auriferous deposits. 1 inch = 8 miles. 1899.—Chalmers, R.
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- , —, Manitoba. Lake Winnipegosis, &c. $\frac{1}{2,000,000}$. 1900.—Suess, E.
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- , —, Connecticut. 1 inch = 1 mile. 1900.—Dorsey, C. W., &c.
- , —, — (Central). $\frac{3}{4}$ inch = 1 mile. 1899.—Westgate, L. G.
- , —, Dakota. Black Hills. $\frac{1}{2}$ inch = about 1 mile. 1899.—Irving, J. D.
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- , —, Indian Territory. McAlester-Lehigh Coalfield. McAlester, 1 inch = 2 miles; Lehigh, 1 inch = 1 mile. 1899.—Taff, J. A.
- , —, Indiana. 1 inch = 2 miles, &c. 1899.—Ashley, G. H.
- , —, Jurassic Sea, Wyoming, Utah, & British Columbia. 1900.—Logan, W. N.
- , —, Kansas (*various*). 1899.—Adams, G. J.; Grimsley, G. P., &c.; & Haworth, E.
- , —, Lake Superior Region. 1 inch = about 45 miles. 1899.—Clements, J. M.
- , —, Louisiana (*various*). 1900.—Harris, G. D.; Veatch, A. C.
- , —, Maine (*various*). 1899.—Stone, G. H.
- , —, Monhegan Island. $5\frac{1}{2}$ inches = 1 mile. 1900.—Lord, E. C. E.
- , —, Maryland. 1 inch = 20 miles. 1899.—Clark, W. B.
- , —, — (*various*). 1899.—Johnson, A. N.
- , —, Massachusetts. Berkshire Co. (*various*). 1899.—Emerson, B. K.
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- , —, Isle Royale. $1\frac{1}{4}$ inches = 2 miles. 1898.—Lane, A. C.
- , —, — (Lower). 1 inch = 10 miles. 1895.—Lane, A. C., &c.
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- , —, Iron - Mines. 1900.—Bachelery, A.
- , —, N.E. $\frac{1}{1,000,000}$. 1900.—Winchell, A. N.
- , —, —, Minneapolis. $\frac{5}{8}$ inch = 1 mile. 1900.—Upham, W.
- , —, Montana. Butte mining district. 1900.—Lakes, A.
- , —, Nebraska (S.E.). 1900.—Buckley, E. R.
- , —, New Mexico. 1 inch = 1 mile. 1900.—Means, T. H., &c.
- , —, —, Dona Ana, Socorro, & Otero Cos. 1900.—Herrick, C. L.
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- , —, New York. Elizabethtown & Westport. 1 inch = 1 mile. 1899.—Kemp, J. F.
- , —, Staten Island Terminal Moraine. 1 inch = $2\frac{1}{4}$ miles. 1899.—Hollick, A.
- , —, & Vermont, &c. $\frac{1}{2}$ inch = 1 mile, and 2 inches = 1 mile. 1899.—Dale, T. N.

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 —. Tintic Mts. 1 inch = 1 mile, and $6\frac{1}{2}$ inches = 1 mile. 1899.—Tower, G. W., Jun., &c.
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 —. Virginia. Richmond, 1 inch = 2 miles. 1899.—Shaler, N. S., &c.
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- Argentine-Chilian Cordillera. $\frac{1}{1,000,000}$
 1900.—Burckhardt, C.

ASIA.

- DUTCH EAST INDIES. Java. $\frac{1}{6,000,000}$
 1900.—Suess, E.
 FORMOSA. Hoko Is. $\frac{1}{200,000}$ 1900.—Kotô, B.
 SIBERIA. Yakutsk District & New Siberian Is. $\frac{1}{8,000,000}$ 1900. Diener, C.

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- AUSTRALIA (S.). 1 inch = 16 miles. 1899.—Brown, H. Y. L.
 —. (—). Kangaroo I. $1\frac{1}{2}$ inches = 2 miles. 1899.—Howchin, W.
 AUSTRALIA (W.). 1 inch = 120 miles. 1900.—Maitland, A. G.
 —. (—). Collie Coalfield. 1 inch = 4 miles. 1900.—Maitland, A. G.
 —. (—). Coolgardie. 1 inch = 1 mile. 1900.—Maitland, A. G.
 —. (—). Country between Cue, Peak Hill, & Menzies. 1 inch = 13 miles. 1899.—Maitland, A. G.
 —. (—). Distribution of Minerals. 1 inch = 120 miles. 1900.—King, H. S.
 —. (—). Greenbushes Tinfield. 1 inch = 1 mile. 1900.—Maitland, A. G.
 —. (—). Irwin Coalfield. 1 inch = 3 miles. 1900.—Maitland, A. G.
 —. (—). Kalgoorlie (Boulder Group). 20 inches = 1 mile. 1900.—Krause, F. M.
 —. (—). Mount Margaret Goldfield. 1 inch = 300 chains. 1900.—Burt, A. E.
 —. (—). Northampton. $\frac{3}{4}$ inch = 1 mile. 1900.—Maitland, A. G.
 NEW CALEDONIA. $\frac{1}{4,000,000}$ 1900.—Suess, E.
 NEW GUINEA, BRITISH. 1 inch = 10 miles. 1900.—Haddon, A. C.
 NEW SOUTH WALES. Cudjiegong Cinnabar Deposits. 1 inch = $\frac{1}{4}$ mile. 1900.—Carne, J. E.
 —. Blue Mts. & Sydney Coal Basin. $\frac{1}{200,000}$ 1900.—Suess, E.
 —. Falmash. 1 inch = 4 chains. 1900.—Jaquet, J. B.

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- NEW SOUTH WALES. Lucknow. 1 inch = 640 feet. 1900.—Pittman, E. F.
 —. Wingello. 2 inches = 1 mile. 1900.—Jaquet, J. B.
 NEW ZEALAND. $\frac{1}{60,000,000}$ 1900.—Suess, E.
 —. Nelson Boulder Bank. 1900.—Worley, W. F.
 —. North Island. Coromandel Goldfield, 4 inches = 1 mile, & Torehine district, $1\frac{3}{4}$ inches = 1 mile. 1900.—Maclaren, J. M.
 QUEENSLAND. 1900.—Anon. 46.
 —. Ipswich coalfield. 4 inches = 1 mile. 1900.—Cameron, W. E.
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- AUSTRIA-HUNGARY. Bohemia. Graslitz. $\frac{1}{25,000}$ 1900.—Gæbert, C.
 —. —. Erzgebirge, Joachimsthal, &c. 1 inch = about 6·2 miles. 1900.—Dahner, K.
 —. Dalmatia. Sinj district. $\frac{3}{4}$ inch = about 1 mile. 1900.—Vacek, M.
 —. Goritz, Tribuš—Idria district. $\frac{1}{150,000}$ 1900.—Kossmatt, F.
 —. Hungary. Béla & Muzsla. $\frac{1}{25,000}$ & $\frac{1}{7,200}$ 1900.—Horusitzki, H.
 —. —. Bogát basaltic outbursts. $\frac{1}{150,000}$ 1900.—Koch, A.
 —. —. Nagy-Maros. $\frac{1}{75,000}$ 1899.—Böckh, H.
 —. —. Sósmező. $\frac{1}{75,000}$ 1900.—Böckh, J.
 —. Transylvania. Törzburg. $\frac{1}{200,000}$ 1899.—Popovič—Hatzeg, V.
 —. —. Heviz. $\frac{1}{150,000}$ 1900.—Koch, A.
 —. Salzburg (*various*). 1899.—Fugger, E.
 BELGIUM. Belgian, Westphalian, English, & N. French coalfields. $\frac{1}{1,500,000}$ 1900.—Forir, H.
 —. Dutch Limburg, Rhenish Prussia, & Westphalia. Coalfields $\frac{1}{150,000}$ 1900.—Forir, H.
 —. Hainault. Walcourt. $\frac{1}{70,000}$ 1900.—Simoons, E.
 —. Liège. Stavelot. $\frac{1}{500,000}$ 1900.—Lohest, M.
 —. Namur. Dinant Basin. $\frac{1}{40,000}$ 1900.—Fourmarier, P.
 —. —. Haversin. $\frac{1}{20,000}$ 1900.—Simoons, E.
 DENMARK. Geological Survey. Bogense. $\frac{1}{100,000}$ 1900.—Madsen, V.
 Holbæk. $\frac{1}{100,000}$ 1900.—Rordam, K., &c.
 Kalundborg. $\frac{1}{100,000}$ 1900.—Rordam, K., &c.
 Nykjöbing. $\frac{1}{100,000}$ 1900.—Rordam, K., &c.
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 —, —, No. 35. St. Andreae, $\frac{1}{490,000}$ & $\frac{1}{200,000}$. 1899.—Frosterus, B.
 —, Jussaro I. $\frac{1}{100,000}$ & $\frac{1}{2,000}$. 1899.
 —Tigerstedt, A. F.
 —, Ladoga district moraines. $\frac{1}{2,000,000}$. 1899.—Rosberg, J. E.
 —, Ladoga Lake. Mantsinsaari I. 1 inch = 875 yards. 1899.—Ailio, J.
 —, *Toldia*-sea shore-lines. 1899.—Hackman, V.
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 —, Allier. Commentry. 1900.—Fayol, H.
 —, —, Coalfield. $\frac{1}{357,000}$. 1900. Leriche, M.
 —, Aquitaine. Charente & Dordogne. 1900.—Glangeaud, P.
 —, Aude. Durban District. 1 inch = 1'86 miles. 1900.—Klockmann, F.
 —, Aveyron. Decazeville coalfield. $\frac{1}{357,000}$. 1900. Leriche, M.
 —, Brittany. Rade de Brest. $\frac{1}{80,000}$. 1900.—Barrois, C.
 —, Calvados. Plain of Caen. 6 inches = 17 miles. 1900.—Anon.
 61.
 —, Haute-Garonne. Salies-du-Salut. $\frac{1}{80,000}$. 1900.—Carez, L.
 —, Gard coalfield. $\frac{1}{175,000}$. 1900.—Bertrand, M.
 —, Loire. St. Etienne coalfield. $\frac{1}{700,000}$. 1900.—Leriche, M.
 —, Var. La Bastide. $\frac{1}{30,000}$. 1900.—Guébbard, A.
 —, (Central). Carboniferous Folds of N.E. Central massif. $\frac{1}{1,500,000}$. 1900.—Suess, E.
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 —, (Southern). Provence & Rhône Valley. Tertiary Folds. $\frac{1}{2,500,000}$. 1900.—Suess, E.
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 23. Heidelberg. 1896.—Andreae, A., &c.
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 33. Effenbach. 1898.—Schalch, F.
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 —, Harz. $\frac{1}{600,000}$. 1900.—Suess, E.
 —, —, (Upper). Clausthal. $\frac{1}{38,000}$. 1900.—Beck, R.
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 —, Lorraine, &c. $\frac{1}{1,000,000}$. 1900.—Suess, E.
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- Anglesey (N.). 4 inches = 1 mile. 1900.—Matley, C. A.
- Brecknock. Builth. $\frac{3}{8}$ inch = 1 mile. 1900.—Elles, G. L.
- — — — — $\frac{1}{2}$ inch = 1 mile. 1900.—Wood, E. M. R.
- Cambridgeshire. 1 inch = 7 miles. 1900.—Elsden, J. V., &c.
- Cumberland & Westmorland. 1 inch = 4 miles. 1900.—Marr, J. E.
- Hertfordshire. 1 inch = 4 miles. 1900.—Lones, T. E.
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- Kent. 1 inch = 16 miles. 1899.—Whitehead, C.
- Lancashire (S.) Coalfield. 1 inch = 6 miles. 1900.—Lozé, E.
- Leicester & Derby. Ashby-de-la-Zouch & Measham. 2 inches = 1 mile. 1900.—Fox-Strangways, C.
- — — — — Ashby-de-la-Zouch & Melbourne. 2 inches = 1 mile. 1900.—Fox-Strangways, C.
- Man (I. of). 1 inch = 4 miles. 1900.—Elsden, J. V.
- Merioneth. Bala fault. 1 inch = $\frac{1}{2}$ mile. 1900.—Lake, P.
- Midland Coalfields. 1 inch = 6 miles. 1900.—Lozé, E.
- Montgomery. Long Mt. $\frac{1}{2}$ inch = 1 mile. 1900.—Elles, G. L.
- — — — — 3 inches = 1 mile. 1900.—Wood, E. M. R.
- Northamptonshire. 1 inch = 8 miles. 1900.—Elsden, J. V., &c.
- Northumberland & Durham Coalfield. 1 inch = 6 miles. 1900.—Lozé, E.
- Radnor, Shropshire, & Old Radnor and Shrewsbury. 1 inch = 8 miles. 1900.—Callaway, C.
- — — — — Rhayader. $1\frac{1}{2}$ inches = 1 mile. 1900.—Lapworth, H.
- Shropshire. Ludlow district, $\frac{1}{2}$ inch = 1 mile. 1900.—Wood, E. M. R.
- Sussex. Arundel, Chichester, &c. 1 inch = 5 miles. 1900.—Mill, H. R.
- Wales (S.) Coalfield. 1 inch = 6 miles. 1900.—Lozé, E.
- Warwickshire. Atherstone & Polesworth. 2 inches = 1 mile. 1900.—Fox-Strangways, C.
- — — — — Nuneaton & Atherstone. 2 inches = 1 mile. 1899.—Fox-Strangways, C.
- Worcestershire. Malvern & Abberley Hills. 3 inches = 1 mile. 1900.—Groom, T. T.

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- — — — — Bradford, &c. $\frac{3}{4}$ inch = 4 miles. 1900.—Wilson, J. E.
- Geological Survey. 1-inch Geological Map. N. s. 203. Bedford (Drift). 1900.—Cameron, A. C. G., &c.
- — — — — N. s. 231. Merthyr Tydfil (Solid & Drift). 1900.—Strahan, A., &c.
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- — — — — N. s. 339. Teignmouth. 1899.—Woodward, H. B., &c.
- — — — — Dorset. Vale of Marshwood. 1 inch = 2 miles. 1900.—Jukes-Browne, A. J., &c.
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- IRELAND. Antrim. 1 inch = 7 miles. 1900.—Elsden, J. V., &c.
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- Dublin District. $\frac{1}{633,600}$. 1900.—Suess, E.
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80. Ballyjamesduff. 1898.—McHenry, A., &c.
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- Orkneys. 1 inch = 6 miles. 1900.—Flett, J. S.
- Sutherlandshire. $\frac{1}{63,360}$. 1900.—Suess, E.
- GREECE. Morea. Triphylia. $\frac{1}{400,000}$. 1900.—Mitzopoulos, C.
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 —. Campania. Phlegrean Fields $\frac{1}{125,000}$ 1900.—Suess, E.
 —. Emilia. Grizzana. $\frac{1}{50,000}$ 1900.—
 —. Vinassa de Regny, P. E.
 —. Liguria. Santa Giustina & Sassello. $\frac{1}{50,000}$ 1900.—Issel, A.
 —. Piedmont. Turin, &c. $\frac{1}{500,000}$ 1900.—Stella, A.
 —. Romagna. Volcano Laziale. $\frac{1}{100,000}$ & $\frac{1}{75,000}$ 1900.—Sabatini, V.
 NORWAY. $\frac{3}{4}$ inch = 62.10 miles. 1900.—Reusch, H.
 —. Christiania. $\frac{1}{200,000}$ 1900.—Suess, E.
 —. Norrland. Sulitelma. $\frac{1}{75,000}$ 1900.—Sjögren, H.
 —. Southern. $\frac{1}{6,000,000}$ 1900.—Suess, E.
 —. Tromsö District. $\frac{1}{1,300,000}$ 1900.—Suess, E.
 —. & Sweden. Kvikjkjokk & Sulitelma to Norwegian coast. $\frac{1}{500,000}$ 1900.—Holmquist, P. J.
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 RUMANIA. Campulung & Sinaia. $\frac{1}{200,000}$ 1899.—Popovič-Hatzeg, V.
 —. Walachia. 1899.—Mrazec, L.
 RUSSIA. Donetz Basin. $\frac{1}{800,000}$ 1900.—Mauerhofer, J.
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 —. Taurida Gov. Konka R. 1 inch = 150 versts. 1899.—Sokolov, N.
 —. Perm. Tura River District 1 inch = 13.26 miles. 1900.—Purinton, C. W.
 —. Ural gold-district. $\frac{1}{4,550,000}$ 1900.—Louis, D. A.
 SPAIN. Asturias. 1 inch = 6 miles. 1899.—Jones, J. A.
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 —. Grisons, Rhätikon, &c. $\frac{1}{370,000}$ 1900.—Rothpletz, A.
 —. Molasse coal, E. of Reuss (various). 1899.—Letsch, E.
 Maragha (Persia).—Guenther, R. T.
 Marble, Carrara.—Achiardi, G. d'.
 —, flow of.—Adams, F. P.
 —, Greek.—Anon. 63.
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 —, Pyrenees.—Anon. 62.
 —, thermal diffusivities.—Pierce, B. O.
 —, United States.—Day, W. C.
 —, Verona.—Nicolis, E.
 Marburg (Hesse).—Kayser, P.
 MARCOU, J.—McKay, A.
 Maree, Loch (Ross).—Russell, D.
 Margaritana.—Angelis d'Ossat, G. de, &c.
 Margarophyllia.—Tornquist, A.
 Marginella.—Ortmann, A. E.
 Marginifera.—Diener, C.
 Marginulina.—Chapman, F.
 Maria Valley (Hungary).—Schaffer, F.
 Marine bionomy, stratigraphy &.—Grabau, A. W.
 — bed, Staffordshire Coal-Measures.—Ward, J.
 — deposits.—Murray, Sir J.
 Marniopteris.—Taff, J. A.; White, D.; Zeiller, R.
 Markings, plant-like.—Blanckenhorn, M.
 Marl, Wolfsdorf.—Schubert, R. J.
 Marls, chemistry of Triassic.—Wuelfing, E. A.
 —, Belgian Tertiary.—Cornet, J.; Rutot, A.
 —, natural history of.—Davis, C. A.
 —, analysis.—Van den Broeck, E.
 —, Aisne.—Ladrière, J.
 Marmolatella.—Répin, J.
 Marquesas Is. (Pacific).—Agassiz, A.
 Marquette (Mich.) iron, &c.—Clements, J. M.
 Marsa, Cape (Algeria).—Duparc, L., &c.
 Marseille (Provence).—Fournier, E.; Répin, J.
 MARSH, O. C.—Voit, C. von; Whitaker, W.
 Marshwood, Vale of (Dorset).—Jukes-Browne, A. J., &c.
 Mart (Tex.).—Merrill, G. P., &c.
 Martesia.—Ortmann, A. E.
 Martha's Vineyard (Mass.).—Packard, A. S.
 Martinia.—Enderle, J.; Hague, A., &c.

- Martiniopsis*.—Diener, C.; Enderle, J.
 Martinsburg Shale.—Prosser, C. S.
 Maryland (U.S.A.).—Clark, W. B.;
 Johnson, A. N.; Prosser, C. S.; Reid,
 H. F.; Whitney, M.
 Massachusetts (U.S.A.).—Burr, H. T.;
 Emerson, B. K.; Hollick, A.; Wal-
 cott, C. D., &c.; Wright, F. E.
Mastodon.—Vacek, M.
Matonia.—Seward, A. C.
Matonidium.—Seward, A. C.; Ward,
 L. F., &c.
 Mattawa, Lake (Ont.).—Ami, H. M.
 Mautern (Styria).—Weinschenk, E.
 Mayenne (France).—Michel-Lévy, A.,
 &c.; Ehlert, D. P.
 Mayon Volcano (Philippine Is.).—
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 Mazaruni R. (British Guiana).—Harri-
 son, J. B., &c.
Mazzalina.—Harris, G. D.
Meandropsina.—Schlumberger, C.
 Measham (Derby).—Fox-Strangways, C.
 Mecklenburg (Germany).—Geinitz, E.
Mecynodus.—Lotz, H.
 Medina Sandstone.—Whitfield, R. P.,
 &c.
 Mediterranean basin.—Hull, E.
 ——— Tertiary deposits.—Schaffer, F.
Medullosa.—Scott, D. H.
 Medusa, Silurian.—Ami, H. M.
Megacrodon.—Roth, S.
Megalodon.—Bittner, A.
Megalodus.—Hørnes, H.; Lotz, H.
 Megalon (N.S.W.).—Bertrand, C. E.
Megalosaurus.—Osborn, H. F.; Sauvage,
 H. E.
Megambonia.—Taff, J. A.
Megerlea.—Remeš, M.
 Meiningen (Germany).—Schuetze, E.;
 Zimmermann, E.
 Meiringen (Berne).—Lugeon, M.
Melanioptyxis.—Cossmann, M.
 Melanite.—Fantappiè, L.; Franchi, S.;
 Twelvetrees, W. H., &c.
Melanopsis.—Bæckh, H.; Schubert, R.
 J.
 Melbourne (Derby).—Fox-Strangways,
 C., &c.
Melicerita.—Ortmann, A. E.
Meliceritites.—Gregory, J. W.
 Melilite.—Fouqué, F.
 Melite.—Gaubert, P.
 Melonite.—Dieseldorff, A.; Higgin, A.
 J.; Hintze, C.
 Ménerville (Algeria).—Duparc, L., &c.
Menophyllum.—Hague, A., &c.
 Mentone (Alpes-Maritimes).—Riaz, A.
 de.
 Mentor Beds.—Jones, T. R.
Mentzelia.—Tornquist, A.
Menyanthes.—Andersson, G.
 Menzies (W. Austr.).—Maitland, A. G.
 Mercur (Utah).—Hills, R. E.
 Mercury, distribution of.—Carne, J. E.;
 Hintze, C.
 Mere (Wilts).—Jukes-Browne, A. J.
 'Meretrix'.—Newton, R. T.; Roverto, G.
 Mèrignac (Gironde).—Engerrand, —;
 Neuville, M.
 Merioneth (North Wales).—Lake, P.;
 Tucker, W. T.
Merista.—Huene, F. von.
Meristella.—Grabau, A. W.; Taff, J. A.
 Merostomatous tracks.—Packard, A. S.
 Merseburg (Germany).—Beyschlag, F.,
 &c.; Schuetze, E.
 Mersey River.—Nares, Sir G. S.
 Merstham (Surrey).—Jukes-Browne, A.
 J.
 Merthyr Tydfil (Glamorgan).—Strahan,
 A., &c.
 Merxem (Antwerp).—Dautzenberg, P.,
 &c.
Merycochoerus.—Douglass, F.
 Méry-sur-Oise (Seine-et-Oise).—Dollfus,
 G. F., &c.
Mesodon.—Williston, S. W.
Mesodromilites.—Woodward, H.
 Mesolite.—Spurr, J. E.
Mesospira.—Cossmann, M.
 Messina (Sicily).—Schaffer, F.; Seguenza,
 L.
 Messinian.—Peola, P.
Metacoceras.—Yakovlev, N.
Metadoxides.—Matthew, G. F.
 Metalliferous deposits, distribution.—
 Anon. 52; Brough, B. H.; Launay, L.
 de.
 ———, Great Britain, &c.—Atkin-
 son, J. B., &c.; also Foster, C. Le N.,
 &c.
 ———, See also Iron, &c.
 Metamorphic rocks, ore-deposits &.—
 Beck, R.
 ———, Tyrone.—Cole, G. A. J.
 ———, See also Igneous rocks, &c.
 Meteoric iron, Idaho.—Hidden, W. E.
 ———, Madras.—Holland, T. H.
 ———, Texas.—Merrill, G. P., &c.
 Meteorites, Berne.—Fellenberg, E. von.
 ———, Colorado.—Hills, R. C.
 ———, Finland & France.—Meunier, S.
 ———, Japan.—Davison, J. M.
 ———, Illinois Gulch & Kansas.—Preston,
 H. L.
 ———, Michigan & Texas.—Merrill, G. P.,
 &c.
 ———, Missouri & New Mexico.—Preston,
 H. L.
 Meteorology, Glacial Epoch &.—
 Chamberlin, T. C.; Harmer, F. W.;
 Reed, H. S.
 ———, Ordovician.—Sardeson, F. W.
Metethmos.—Gregory, J. W.
 Meurthe-et-Moselle (France).—Bleicher,
 G., &c.; Lebrun, A.; Villain, P.
 Meuse R. (Namur).—Cornet, J.; Lohest,
 M.; Rutot, A.
 Mexico.—Besse, F.; Doyle, K. D.;
 Dumble, E. T.; Furman, H. van F.;
 Halse, E.; Howarth, O. H.; Och-
 senius, C.; Payne, E. E.; Ordóñez, E.,
 &c.; Stuebel, A.

- Miask (Urals).—Pirsson, S. V.
 Mica.—Fantappiè, L.; Holmes, J. A.;
 Parsons, J.
 —schists, Killiney Park.—O'Reilly,
 J. P.
Michelinia.—Hague, A., &c.
 Michigan (U.S.A.).—Clements, J. M.;
 Hubbard, L. L.; Lane, A. C.; Palache,
 C.; Rominger, C.
Mimacca.—Matthew, G. F.
Micraster.—Hesse, E.
Microderoceras.—Fucini, A.
Microdiscus.—Matthew, G. F.; Toll,
 Baron E. von.
 Microphotographs, limestones.—Hovel-
 acque, M.
Microporella.—Neviani, A.
Microsolena.—Gregory, J. W.
 Microtanites.—Lacroix, A.
 Microtestacea, Messina sub-fossil. —
 Schaffer, F.
 Middlesex.—Geikie, Sir A.
 Middleton-on-the-Wolds (Yorks).—
 Sheppard, T., &c.
 Midlands, Bunter pebble-beds.—Bonney,
 T. G.
 Migration, faunal. — Dewalque, G.;
 Scharff, R. F.
Miliolina.—Chapman, F.
 Miliolite.—Evans, J. W.
 Millstone, Bracquegnies. — Cornet, J.,
 &c.
 MILNE-EDWARDS, A. — Anon. 21;
 Gaudry, A., &c.; Lévy, M.; Lydekker,
 R.; Perrier, E.
 ———, H.—Lévy, M.
 Milwaukee (Wisc.).—Baker, F. C.
 Minahassa (Celebes). — Buckingham, H.;
 Rinne, F.; Wichmann, A.
 Minas Geraes (Brazil).—Branner, J. C.;
 Derby, O. A.
 Mineral classification.—Dana, E. S.;
 Hintze, C.; Lapparent, A. de; Rutley,
 F.
 ——— constituents of igneous rocks, con-
 solidation of.—Sollas, W. J.
 ——— determination by birefringence.—
 Riva, C.; Robinson, H. H.
 ———, HOHMANN (T.) collection.—Pöhl-
 mann, R.
 ——— paints, United States.—Parker, E.
 W.
 ——— systems, hexagonal.—Wallerant, L.
 ——— waters, Auvergne.—Glangeand, P.
 ———, Belgium.—Dewalque, G.;
 Lambert, G.
 ———, Heidelberg.—Dittrich, M.
 ———, Kiedrich Valley.—Fresenius,
 H.
 ———, metals in.—Garrigou, F.
 ———, Naheim.—Jennings, A. V.
 ———, Portugal & Spain.—Ferreira
 da Silva, A. J.
 ———, subterranean.—Anon. 68.
 ———, United States.—Peale, A. C.
 Mineralogy, America (N.).—Weeks, F.
 B.
 Mineralogy, text-books.—Dana, E. S.;
 Hintze, C.; Lapparent, A. de; Rutley,
 F.
 Minerals, Argentina.—Bodenbender, G.
 ———, Auvergne.—Kunz, G. F.
 ———, Bohemia & Saxony.—Ehmichen,
 H.
 ———, California.—Yale, C.
 ———, Canada.—Ingall, E. D.
 ———, Carrara marble.—Achiardi, G. d'.
 ———, Ceylon.—Coomára-Swány, A. K.;
 Gruenling, F.; Melzer, G.
 ———, coloration.—Nabl, A.; Rinne, F.
 ———, formation in granite.—Stromeyer,
 C. E.
 ———, graphic representation.—Fedorov,
 E. von.
 ———, Japan.—Jimbō, K.
 ———, Langesund.—Sjögren, H.
 ———, Madagascar.—Lacroix, A.
 ———, microchemistry of.—Lemberg, J.
 ———, new.—Spencer, L. J.
 ———, Nova Scotia.—Gilpin, E., Jun.
 ———, properties of.—Rutley, F.; Tassin,
 W.
 ———, rare elements in.—Nordenskjöld,
 Baron A. E.
 ———, rock-forming.—Rosenbusch, H.
 ———, Rumania.—Poni, P.
 ———, Sardinia.—Achiardi, G. d'; Artini,
 E.; Millosevich, F.; Riva, C.
 ———, Scottish.—Goodchild, J. G.
 ———, Urals & United States. — Kunz,
 G. F.
 ———, Valais dolomite.—Schmidt, C.
 ———, Vulsini tufaceous plateau.—Fan-
 tappiè, L.
 ———. See also Diamond, &c.
 Mines, Great Britain, &c.—Atkinson, J.
 B., &c.; Foster, C. Le N., &c.
 ———, India.—Grundy, J.
 Mining Engineers, first Institute. —
 Brough, B. H.
 Minneapolis (Minn.).—Upham, W.
 Minnesota (U.S.A.).—Bachelery, A.;
 Grant, U. S.; Hall, C. W., &c.;
 Sardeson, F. W.; Winchell, A. N.;
 Winchell, N. H., &c.
 Mino-Owari (Japan).—Omori, F.
 Minorca (Balearic Is.).—Vuillier, G.
 Miocene, Abruzzi.—Nelli, B.
 ———, Basle.—Buxtorf, A.
 ———, Egypt.—Andrews, C. W.
 ———, Martha's Vineyard.—Packard, A.
 S.
 ———, Sicily.—Coppa, A.
 ———, Umbria.—Angelis d'Ossat, G. de;
 Verri, A., &c.
 ———, Volhynia.—Laskarev, V.
 ———. See also Tertiary.
Miolania.—Chapman, F.; Moreno, F.
 P., &c.
 Mississippi (U.S.A.).—Keyes, C. R.
 Missouri (U.S.A.).—Garrison, F. L.;
 Hershey, O. H.; Rogers, A. F.;
 Rowley, R. R.; Stevens, H. J.;
 White, D.

- Misticeti (Calabria).—Stefano, G. di.
 Mitcham (Surrey).—Martin, E. A.
 Mitchellite.—Gaubert, P.
Mitra.—Rovert, G.
 Mittelgebirge (Bohemia).—Hibsch, J.
 E.; Ehmichen, H.; Uhlig, V.
Mixtotherium.—Pavlov, M.
Mobergia.—Redlich, K.
Modiella.—Grabau, A. W.
Modiola.—Angelis d'Ossat, G. de, &c.;
 Boeckh, H.; Böhm, J.; Diener, C.;
 Greppin, E.; Harris, G. D.; Ortmann,
 A. E.; Rovert, G.; Vogel, F.; Whit-
 eaves, J. F.; Wollemann, A.
Modiolopsis.—Matthew, G. F.
Modiomorpha.—Grabau, A. W.; Lotz,
 H.
 Mödling (Lr. Austria).—Vacek, M.
 Moel Tryfaen (Caernarvon).—Greenly,
 E.
 Mohawk Valley (N.Y.).—Prosser, C. S.
 Mohawkite.—König, G. A.
Mohrensternia.—Sokolov, N.
Mojsvarites.—Mojsisovics, E. von.
 Molasse, Vaucluse.—Martin, D.
 Molasse-blocks, Cañon de Regalon.—
 Martin, B.
 — coal, Switzerland.—Letsch, E.
 Moldavia (Rumania).—Athanasii, S.
 Moldavite.—Kunz, G. F.
 Molinchart (Aisne).—Gosselet, J.
 Mollusca, denudation by.—Harlé, E.
See also Gasteropoda, &c.
 Molucca Is. (D. E. I.).—Lucas, W.;
 Schroeder van der Kolk, J. L. C.
 Monazite.—Bowman, H. L.; Derby, O.
 A.
 Monchiquite.—Flett, J. S.
 Money, Indian.—Farrington, O. C.
 Monhegan I. (Maine).—Lord, E. C. E.
 Monmouthshire. — Dakyns, J. R.;
 Strahan, A., &c.
Monoclimacis.—Guerich, G.
Monograptus.—Elles, G. L.; Guerich,
 G.; Wood, E. M. R.
Monomerella.—Huene, F. von.
Monophyllites.—Tommasi, C.
 Monotremata, Anomodontia &—Seeley,
 H. G.
Monotrypa.—Grabau, A. W.
 Mons (Hainault).—Cornet, J.
 Mont-Blanc massif (Savoy).—Bertrand,
 M., &c.
 — Dore (Auvergne). — Michel-Lévy,
 A.
 Montagne Noire (Languedoc).—Berge-
 ron, J.; Depéret, C.
 Montana (U.S.A.).—Chapman, R. H.;
 Douglass, E.; Lakes, A.; Leiberg, J.
 B.; Pearce, R.; Walcott, C. D., &c.;
 Weed, W. H.
 Montgomery (Wales).—Elles, G. L.;
 Wood, E. M. R.
 Montigny-sur-Loing (Seine-et-Marne).—
 Dollfus, G. F., &c.
Montia.—Andersson, J. G.
Montipora.—Andrews, C. W., &c.
Montlivaultia.—Angelis d'Ossat, G. de,
 &c.; Bornhardt, W., &c.; Gregory, J.
 W.
 MONTMOLLIN, A. DE.—Tribolet, M.
 de.
 Montreal (Canada).—Adams, F. D.
 Monzonite.—Hill, J. B., &c.
 Moraines, lateral.—Lomas, J.
 —, Minnesota. — Winchell, N. H.,
 &c.
 —, Orange R.—Rogers, A. W.
 —, Rhine.—Keilhack, K.; Rosberg, J.
 E.; Sprecher, F. W.
 —, Rhine & Rhône glaciers.—Baltzer,
 A.
 —, Württemberg.—Koken, E.
 Moravia (Austria).—Bukowski, G.;
 Chapman, F.; Hofmann, A.; Remeš,
 M.; Schubert, R. J.
 MORGAN, C. L.—Anon. 33.
 Morocco (N. Africa).—Fischer, T.
 Morrocu (Calabria).—Stefano, G. di.
 Morshansk (Saratov Gov.).—Nikitin, S.
 MORTIMER Museum. *See* Museum,
 Driffield.
 MORTON, G. H.—Anon. 22; Stirrup,
 M.
 Morton (W.) (Queensl.). — Cameron,
 W. E.
 Morvan (France).—Vélain, C., &c.
Mosasaurus.—Jesup, M. K.; Osborn,
 H. F.
 Moscow (Russia).—Bogoslovski, N. A.;
 Nikitin, S.
 Moseian.—Van Ertborn, Baron O.
 Mosquito Range (Colo.).—Lakes, A.
 Mount Margaret Goldfield (W. Austr.).—
 Burt, A. E.
 Mountain-drainage.—Sprecher, F. W.
 Mountains, origin of.—Bertrand, M.;
 Lamarre-Olivier, A.; Marr, J. E.
 Mozambique (E. Africa).—Choffat, P.
 Mud, deposition of.—Vernon-Harcourt,
 L. F.
 'Mud-flow' markings.—Whitfield, R.
 P.
 Muga R. (Catalonia).—Vidal, L. M.
 Mullerite.—Gaubert, P.
 Munich (Bavaria).—Ammon, L. von;
 Schwager, A.; Zittel, K. A. von.
Munida.—Segerberg, K. O.
 Mur & Mürz R. (Salzburg).—Boehm,
 A.
Murchisonia.—Donald, J.; Enderle, J.;
 Lotz, H.; Yakovlev, N.
 Mure Massif (Dauphiné).—Lory, P.
 &c.
Murex.—Ortmann, A. E.; Sokolov, N.
 Murman Coast (Kola Peninsula).—
 Knipovich, N.
 Murray Desert (S. Austr.).—Tate, R.
 Muschelkalk, Silesia.—Schrammen, A.
 — fauna, Germany.—Philippi, E.
 — *See also* Trias.
 Museum, American Natural History (N.
 Y.).—Hovey, E. O.; Jesup, M. K.;
 Whitfield, R. P., &c.

- Museum, British (Natural History).—Crick, G. C.; Gregory, J. W.
 —, CARNEGIE (Pittsburgh).—Holland, W. J.
 —, Driffield. — Mortimer, J. R.; Sheppard, T.
 —, Geological Society.—Sherborn, C. D.
 —, Geological Survey.—Allen, H. A.
 —, Mainz.—Reichenau, W. von.
 —, Manchester.—Seward, A. C.
 —, Oxford.—Sollas, W. J.; Thomas, H. H.
 —, Paris.—Barrois, C., &c.; Lacroix, A.
 —, Pisa.—Fucini, A.
 —, Rugby School.—Cumming, L.
 —, United States National.—Walcott, C. D.; Tassin, W.
 —, Woodwardian.—Reed, F. R. C.; Woods, H.
 —, Yale.—Ward, L. F.
 Museums Association.—Woodward, H.
 —, Canadian.—Walker, B. E.
 —, E. Prussian provincial.—Jentszsch, A.
 Musk-ox.—Lydekker, R.
Musophyllum.—Hague, A., &c.
 Mussa (Piedmont).—Struever, J.; Weinschenk, E.
 Mutation.—Matthew, G. F.
 Muzsla (Hungary).—Horusitzki, H.
Mya.—Jensen, A. S.
Myacites.—Bittner, A.
Myagrostoma.—Bœhm, J.
Myalina.—Bittner, A.; Herrick, C. L.; Philippi, E.
Mylodon.—Brandes, G.
 Mynydd-y-Garn (Anglesey).—Matley, C. A.
Myoconcha.—Bittner, A.; Tornquist, A.
Myodes.—Nehring, H.
Myophoria.—Benecke, E. W.; Bittner, A.; Newton, R. B.; Tommasi, C.; Tornquist, A.
 Myponga Bay (S. Austr.).—Clark, E. V.
Myrica.—Hague, A., &c.; Peola, P.
Myriophyllum & *Myrtillus*.—Andersson, J. G.
Myrsidoptera.—Bittner, A.; Mariani, E.; Tommasi, C.
Mytilus.—Bæckh, H.; Bœhm, J.; Lorient, P. de; Newton, R. B.; Rovert, G.; Vogel, F.
Nageiopsis.—Ward, L. F., &c.
 Nafels (Glarus).—Oberholzer, J.
 Nagy-Maros (Hungary).—Bæckh, H.
 Naivasha, Lake (Equatorial Africa).—George, G. H.
Najas.—Andersson, G.
 NALIVKIN, V. A.—Tchernyshev, T.
 Namur (Belgium).—Dorlodot, H. de; Forir, H.; Lohest, M.; Mourlon, M.; Rutot, A.; Simoens, G.; Van den Broeck, E.
 Nancy (Lorraine).—Bleicher, G., &c.
 NANSEN'S Polar Expedition.—Pompeckj, J. F.
 Nantuckett I. (Mass.).—Barnard, C.
 Naours (Picardy).—Danicourt, E.
 Naparima Beds.—Guppy, R. J. L.
 Naphtha. *See* Petroleum.
 Napier (N. Z.).—Hill, H.
 Narragansett (R. I.).—Packard, A. S.; Shaler, N. S., &c.
 Narsarsukite.—Gaubert, P.
 Nasonite.—Penfield, S. L., &c.
Nassa.—Harris, G. D.
 Nassau (Germany).—Fresenius, H.; Kayser, E.; Löwe, L.
 Natal (S. Africa).—Dunn, E. J.; Gray, C. J.; Heslop, W. T.
 Natchitoches (La.).—Harris, G. D.
Natica.—Bauer, K.; Bœckh, H.; Bœhm, G.; Bœhm, J.; Bornhardt, W., &c.; Harris, G. D.
Naticopsis.—Enderle, J.; Hague, A., &c.; Koken, E.; Tornquist, A.; Yakovlev, N.
 Natrolite.—Clarke, F. W., &c.; Lowe, H. J.
 Natroun, Wadi (Egypt).—Dewitz, J.
 Nauheim (Hesse).—Jennings, A. V.
Naumburgia.—Andersson, G.
 Nautiloidea, Palæozoic.—Guerich, G.
Nautilus.—Burckhardt, C.; Crick, G. C.; Diener, C.; Grabau, A. W.; Lorient, P. de; Mojsisovics, E. von; Tommasi, C.; Tornquist, A.
 Nazareth (Brazil).—Scott, H. K.
Neæra.—Simionescu, J.; Vogel, F.
 Nebraska (U.S.A.).—Barbour, E. H.; Beede, J. W.; Buckley, E. R.; Gould, C. N.
 Nebular hypothesis.—Chamberlin, T. C.
 Nechlin (Pomerania).—Klebs, R.
 Neckar Valley (Baden).—Dittrich, M.
Necrocarcinus.—Seegerberg, K. O.
 Neisse R. (Silesia).—Leppa, A.
 Nelson boulder-bank (N. Z.).—Worley, W. F.
 Nemours (Seine-et-Marne).—Janet, L.
Neobolus.—Redlich, K.
 Neocomian, Germany & Holland.—Wollemann, A.
 —, King Charles Land.—Lindström, G.
 —, Rumania.—Simionescu, J.
 —, Russia.—Bogoslovski, N. A.
 —. *See also* Cretaceous.
 Neogene.—*See* Tertiary.
Neomylodon.—Ameghino, F.; Gaudry, A.; Hauthal, R.; Mercerat, A.; Moreno, F. P., &c.; Steffen, H.; Woodward, A. S.
 Néouvielle (Hautes-Pyrénées).—Bresson, A.
 Nepheline-rocks, Brazil.—Hussak, E.
 —, British East Africa.—Gregory, J. W.
 —, Finland.—Hackman, V.
 —, Kola.—Ramsay, W.
 —, Lake Superior.—Adams, F. D.

- Nepheline-rocks, Löbau.—Thugutt, St. J.
 ———, Puy-de-Dôme.—Iacroix, A.
 ———, Scotland.—Teall, J. J. H.
 ———, Tasmania.—Twelvetreets, W. H., &c.
Nephelis.—Andersson, G.
Neptunochelys.—Wieland, G. R.
Neridomys.—Böhm, J.
Nerike (Örebro).—Kjellmark, K.
Nerinæa.—Böhm, J.; Bornhardt, W. &c.; Cossmann, M.; Guerich, G.; Toulas, F.
Nerinella.—Cossmann, M.
Neritaria.—Tornquist, A.
Nerithea.—Harris, G. D.
Neritina.—Bauer, K.; Bœckh, H.; Hague, A., &c.
Neritodorus.—Cossmann, M.
Neritopsis.—Cossmann, M.; Loriol, P. de; Oppenheim, P.
Nesuretus.—Reed, F. R. C.
 Nesselsdorf (Moravia).—Chapman, F.
 Netley Heath (Surrey).—Stebbing, W. P. D.
 Neuchâtel (Switzerland).—Schardt, H.; Tribolet, M. de; Rollier, L., &c.
 Neu-Isenburg (Hesse).—Wittich, E.
Neuropteris.—Taff, J. A.; White, D.; Zeiller, R.
 Neustadt (Moravia).—Bukowski, G.
Neusticosaurus.—Schrammen, A.
 Nevada (Cal.).—Lakes, A.; Spurr, J. E.; Turner, H. W.
 Newark Group.—Shaler, N. S., &c.
 New Brunswick.—Bailey, L. W.; Ganong, W. F.
 New Caledonia.—Power, F. D.
 Newcastle (Natal).—Heslop, W. T.
 Newfoundland.—Ami, H. M.; Matthew, G. F.; Nitze, H. B. C.; Walcott, C. D.
 New Guinea, British.—Haddon, A. C.
 New Hampshire (U.S.A.).—Penfield, S. L.
 Newhaven (Sussex).—Rowe, A. W.
 Newlands Corner (Surrey).—Stebbing, W. P. D.
 New Mexico (U.S.A.).—Herrick, C. L.; Hutton, F. W.; Means, T. H., &c.; Whitney, M.
 Newnes Land (Antarctic).—Borchgrevink, C. E.
 Newport (Mon.).—Strahan, A.
 New Siberian Is. (Siberia).—Diener, C.; Toll, Baron E. von.
 New South Wales.—Andrews, E. C.; Atkinson, A. A.; Bertrand, C. E.; Card, G. W.; Carne, J. E.; Coghlan, T. A.; David, T. W. E.; Dieseldorff, A.; Dun, W. S.; Harker, G.; Jaquet, J. B.; McLachlan, D. C.; Milne, D.; Mingaye, J. C. H.; Pittman, E. F.; Rae, J. L. C.; Slea, W. H. J.; Trickett, O.; Watt, J. A.
 Newton Abbot (Devon).—Woodward, H. B., &c.
 Newtownards (Co. Down).—Egan, F. W., &c.
 New York City (U.S.A.).—American Museum of Natural History. *See* Museums.
 ——— State (U.S.A.).—Clarke, J. M., &c.; Dale, T. N.; Fairchild, H. L.; Gilbert, G. K.; Hollick, A.; Kemp, J. F.; Prosser, C. S.; Stevenson, J. J.; Vogt, J. H. L.
 New Zealand.—Böhm, G.; Dunlop, R.; Henry, R.; Hill, H.; McGowan, J.; McKay, A.; Maclaren, J. M.; Murdoch, R.; Park, J.; Rutley, F.; Worley, W. F.
 Nicaragua (C. Am.).—Anon. 40; Sapper, C.
 ——— Canal route.—Hayes, C. W.
 Nickel-glance.—Hintze, C.
 ———, Ontario.—Vogt, J. H. L.
 ———, origin.—Austin, W. L.
 ——— telluride.—Higgin, A. J.
 Nicolaiev (Kherson).—Kortazzi, J.
 Nil-Saint-Vincent (Brabant).—Vanhove, D.
 Nile Delta (Egypt).—Cornish, V.
 Niobrara chalk.—Beecher, C. E.
 Nipissing, Lake (Ont.).—Ami, H. M.; Barlow, A. E.
 Nitrates, cavern-earth.—Hess, W. H.
 ———, soils.—Raeymaekers, D.
 NITZE, H. B. C.—Anon. 23.
 NIXON, J.—Dickinson, J.
Nodelea.—Gregory, J. W.
Nodipecten.—Rovert, G.
Nodosaria.—Chapman, F.
 Nodules, Hardighen.—Bertrand, C. E.
 ———, Rainford.—Caldwell, G.
 Noire, Montagne. *See* Montagne Noire.
 Nome, Cape (Alaska).—Anon. 34; Schrader, F. C., &c.; Weber, M.
 Nomenclature, New York formations.—Clarke, J. M., &c. *See also* Rocks.
 Non, Val di (Tyrol).—Schubert, R. J.
Nonionina.—Reade, T. M.; Schlumberger, C.
 Nord (France).—Gosselet, J.
 Norfolk.—Harmer, F. W.; Jukes-Browne, A. J., &c.
 Noric Alps.—Abel, O.
 Norite.—Clements, J. M., &c.; Holland, T. H.; Kemp, J. F.; Winchell, A. N.
 Normandy.—Anon. 61; Fortin, R.; Gosselet, J., &c.; Hommey, J., &c.; Léprévost, E.; Savalle, E.; Skrodzki, J.
 Norrbotten Län (Sweden).—Hamberg, A.; Holmquist, P. J.; Sjögren, H.; Svenonius, F.
 Northampton (W. Austr.).—Maitland, A. G.
 Northamptonshire.—Blake, J. F.; Elsdon, J. V., &c.
 Northumberland.—Anon. 41; Bates, S.; Gunn, W.; Lozé, E.
 North Sea.—Jervis, W. P.

- Norton Sound (Alaska).—Weber, M.
 Norway.—Barret, R. L.; Davis, W. M.;
 Greenwell, A.; Holmquist, P. J.;
 Huene, F. von; Nordenskjöld, O.;
 Reusch, H.; Sjögren, H.; Steenstrup,
 K. J. V.; Suess, E.; Vogt, J. H. L.
 Norwegian fjords.—Nordenskjöld, O.
 Norwegian Polar Expedition.—Nathorst,
 A. G.
 Nossi-Bé (Madagascar).—Douvillé, H.;
 Zeiller, R.
Nothocygon.—Wortman, J. L., &
Nothosaurus.—Schrammen, A.
Notophyllia.—Dennant, J.
Notornis.—Henry, R.
 Nottinghamshire.—Lozé, E.
 Nova Scotia.—Ami, H. M.; Faribault,
 E. R.; Fletcher, H.; Gilpin, E., Jun.;
 Matthew, G. F.; Robb, E.; Wood-
 man, J. E.
 Novgorod Gov. (Russia).—Zemya-
 chenski, P.
 Nubian Sandstone.—Blanckenhorn, M.
 Nuceto (Lombardy).—Peola, P.
Nucleospira.—Beushausen, L.; Grabau,
 A. W.; Rowley, R. R.
Nucula.—Bittner, A.; Beekh, H.;
 Grabau, A. W.; Jukes-Browne, A. J.,
 &c.; Greppin, E.; Koken, E.; Loriol,
 P. de; Ortmann, A. E.
Nuculites.—Grabau, A. W.
 Nug-uak Peninsula (Greenland).—
 Chamberlin, T. C.
Nummulites.—Chapman, F.; Limburg-
 Stirum, A. de L.; Velge, G.
 Nummulitic Limestone.—Chapman, F.
Nuphar.—Andersson, G.
 Nyasaland (Africa).—Bornhardt, W. &c.
 Henderson, J.
Nyctopora.—Lambe, L. M.
 Nykjöbing (Denmark).—Rordam, K., &c.
Nymphæa.—Andersson, G.
 Oban (Argyll).—Traquair, R. H.
 Oberscheld (Hesse).—Kayser, E.
Obolella.—Matthew, G. F.
Obolus.—Hague, A., &c.
 Obsidian.—Rutley, F.
 Ocean-basins.—Lapparent, A. de; Marr,
 J. E.
 Oceanic deposits.—Anon. 47; Bæggild,
 O. B.; Jensen, A. S.; Thoulet, J.;
 Weber, M.
 — terraces & valleys.—Hull, E.
 Oceans, origin of.—Lapparent, A. de;
 Sollas, W. J.; Suess, E.
Ochetochilus.—Cossmann, M.
 Octéville (Normandy).—Leprévost, E.;
 Savalle, E.
 Oderberg (Brandenburg).—Berendt, G.,
 &c.; Schröder, H.
Odontaspis.—Woodward, A. S.
Odontoceras.—Burckhardt, C.
Odontopteris.—Zeiller, R.
Odostomia.—Murdoch, R.
 Ofner Mts. (Hungary).—Melzer, G.
 Ohio Coal-measure horizon, New Mexico.
 —Herrick, C. L., &c.
 Oil-shale, New Zealand.—Dunlop, A.
 Oise R. (France).—Breuil, —; Gosselet,
 J.
 Old Red Sandstone crustacea.—Laurie,
 M.
 — fishes.—Traquair, R. H.
 —, Monmouthshire. — Strahan,
 A.
 —, Orkneys.—Flett, J. S.
 —, Scotland.—Traquair, R. H.
 Oldenburg (Germany).—Martin, J.
Oldhamia.—Matthew, G. F.; Sollas, J.
 W.
 Oldhamite.—Hintze, C.
 Olekma R. (Siberia).—Glasser, E.
Olenoides.—Bergeron, J.
Olenus.—Matthew, G. F.; Reed, F. R.
 C.; Thomas, H. H.
 Olesa (Catalonia).—Bofill, A.
Oligocarpia.—Scott, D. H.; White, D.
 Oligocene, Auvergne.—Giraud, J.
 —. See also Tertiary.
 Oligoclase.—Jerenejev, P. von.
Oligoketer.—Andersson, G.
Olivella.—Rovertó, G.
 Olivine.—Kunz, G. F.
 Olivine-rocks.—Hill, J. B., &c.
 Olot (Catalonia).—Stuart-Menteath, P.
 W.; Vidal, L. M.
 Olt R. (Hungary).—Koch, A.
Omphalophloios.—White, D.
Omphaloptycha.—Yakovlev, N.
Onoclea.—Hague, A., &c.
Onohippidium.—Lænnberg, E.
 Ontario (Canada).—Ami, H. M.; Barlow,
 A. E.; Daly, R. A.; McInnes, W.
 Pope, F. J.; Vogt, J. H. L.
Onychiopsis.—Seward, A. C.
 Oolite, Bath.—David, W.
 —, Bermudas, &c.—Evans, J. W.
 —, Caen.—Anon. 61.
 —, Jura.—Muehlberg, M.
 —, Monte Foraporta.—Greco, B.
 —, Perdaliana.—Pampaloni, L.
 —, Vosges.—Bleicher, G.
 Oolitic iron, Meurthe-et-Moselle. — Vil-
 lain, P.
 Opal.—Coghlan, T. A.; Fantappiè, L.;
 Kunz, G. F.; McLachlan, D. C.;
 Patton, H. B.; Stock, T.
Operculina.—Chapman, F.
Opis.—Greppin, E.
Opisthocœlus.—Guerich, G.
Oppelia.—Bornhardt, W., &c.; Burck-
 hardt, C.
 Orange R. (S. Africa).—Rogers, A. W.,
 &c.
 — — Colony (S. Africa).—Dunn, E.
 J.; Skinner, B. M.
 Oran (Algeria).—Boule, M.; Fabre, G.
Orbicella.—Andrews, C. W., &c.
Orbiculoidea.—Grabau, A. W.
 Orbitoidal limestone, Christmas I. —
 Andrews, C. W., &c.
Orbitoides.—Chapman, F.; Douvillé, H.;
 Schlumberger, C.
Orca.—Beekh, H.
 Örebro (Sweden).—Kjellmark, K.

- Ordovician, Belgium.—Malaise, C.
 —, Brittany.—Kerforne, F.
 —, Canada.—Ami, H. M.
 —, crustacean tracks.—Packard, A. S.
 —, fauna.—Chamberlin, T. C.
 —, Gloucestershire.—Callaway, C.
 —, Lake District.—Harker, A.
 —, Malvern.—Groom, T. T.
 —, meteorology.—Sardeson, F. W.
 —, Radnor.—Callaway, C.; Lapworth, H.
 —. *See also* Silurian.
 Ore-deposits, China. *See* China.
 —, classification.—Louis, H.
 —, Colorado.—Lakes, A.
 —, contact-metamorphic.—Beck, R.
 —, distribution.—Beck, R.; Launay, L. de.
 —, Freiberg (Saxony).—Beck, R.
 —, Graubünden.—Tarnuzzer, C., &c.
 —, Great Britain, &c.—Atkinson, J. B., &c.; Foster, C. Le N., &c.
 —, Harz.—Beck, R.
 —, nature of.—Brough, B. H.
 —, Norway & Saxony.—Beck, R.
 —, occurrence of.—Launay, L. de.
 —, secondary enrichment.—Emmons, S. F.
 —, Siberia.—Glasser, E.
 —, Styria.—Ryba, F.
 —, Tasmania.—Haber, E.
 —, Transvaal.—Molengraaff, G. A. F.
 —, variations in depth.—Launay, L. de, &c.
 —. *See also* Gold, &c.
 Oreford, Mt. (Quebec).—Dresser, J.
 Oregon (U.S.A.).—Austin, W. L.; Diller, J. S.; Lakes, A.; Walcott, C. D.
 Orenburg (Russia).—Neshaev, A.
 Orepuki (N.Z.).—Dunlop, R.
 Orizaba (Mexico).—Boese, E.
 Orkneys.—Flett, J. S.
 ORMEROD, H. M.—Barnes, C.
 Orne (France).—Bigot, A.
 Orography, tectonic.—Lapparent, A. de; Suess, E.
 Orpington (Kent).—Holmes, T. V.
 Ortelsburg (E. Prussia).—Gagel, C., &c.
Orthis.—Enderle, J.; Hague, A.; Wyszogórski, J.
Orthisina.—Huene, F. von.
 Orthite.—Nordenskjöld, Baron A. E.
Orthoceras.—Canavari, M.; Crick, G. C.; Grabau, A. W.; Herrick, C. L.; Mojsisovics, E. von; Tommasi, C.; Wolterstorff, W.; Yakovlev, N.
 Orthoclase.—Fantappiè, L. *See also* Felspar.
Orthonota.—Grabau, A. W.
Orthotheca.—Matthew, G. F.
Orthothetes.—Grabau, A. W.; Hague, A., &c.; Schellwien, E.
Orthothetina.—Schellwien, E.
 ORTON, E.—White, I. C.
 Orvieto (Umbria).—Lotti, B.
Oryctocephalus.—Matthew, G. F.
 Orzesch-beds.—Gæbler, C.
Osmeroides.—Loomis, F. B.
Osmunda.—Hague, A., &c.
 Ostend (Flanders).—Cort, H. de; Leriche, M.
 Osterwieck (Harz).—Ebert, T.
 Ostracoda, Cambrian.—Matthew, G. F.
 —, classification.—Beecher, C. E.; Zittel, K. A. von.
 —, Devonian.—Grabau, A. W.; Lotz, H.; Ulrich, E. O.
 —, Jurassic, Quaternary, & Rubble-drift.—Chapman, F.
 —, Silurian.—Ami, H. M.; Canavari, M.; Schmidt, F.; Ulrich, E. O.
 —, Tertiary.—Capede, G.; Chapman, F.; Lienenklaus, E.
Ostrea.—Ameghino, F.; Bæckh, H.; Bøhm, G.; Bornhardt, W., &c.; Burckhardt, C.; Harris, G. D.; Jukes-Browne, A. J., &c.; Mayer-Eymar, C.; Oppenheim, P.; Roverto, G.; Sæhle, U.; Vincent, E.; Wollemann, A.
 Oswestry (Salop).—Anon. 56.
Otoceras.—Nætling, F.
 Ottrelite.—Brugnattelli, L.
 Oulx (Piedmont).—Colomba, L.
 Ouro Preto (Brazil).—Scott, H. K.
Ovibos.—Nehring, A.
Oxacron.—Pavlov, M.
 Oxford, Mineralogical Laboratory. — Hartley, E. G. J.
 —, University Museum.—Sollas, W. J.; Thomas, H. H.
 Oxfordian, Bernese Alps.—Loriol, P. de.
 —, Jura.—Rollier, L., &c.
 Oxfordshire.—Jukes-Browne, A. J., &c.
 Oxhe, Fond de (Liège).—Malaise, C.
Oxyana & Oxyanodon.—Wortman, J. L.
Oxyglymenia.—Guerich, G.
Oxycoccus.—Andersson, J. G.
Oxynoticerus.—Hug, O.
Oxyrhina.—Williston, S. W.; Woodward, A. S.
Oxytoma.—Greppin, E.; Hague, A., &c.; Whiteaves, J. F.
 Ozokerite.—Maguire, —.
 Pachino (Sicily).—Rosati, A.
Pachycardia-beds.—Broili, F.
Pachyperna.—Oppenheim, P.
Pachyphyllum.—Hague, A., &c.
Pachyrhizodus.—Loomis, F. B.
 Pacific Ocean.—Agassiz, A.; Phillips, C.
 Padirac (Lot).—Martel, E. A.
 Pakawau (N.Z.).—McKay, A.
Palæobolus.—Matthew, G. F.
 Palæobotany. *See* Plants.
 Palæo-Britannia.—Jervis, W. P.
Palæochirogalus.—Grandidier, G.
Palæodictyon.—Sacco, F.
Palæogalus.—Major, C. I. F.
 Palæolithic implements. *See* Implements.
Palæomeryx.—Douglass, E.

- Palæoneilo*.—Grabau, A. W.; Hind, W.
 Palæontological zones. *See* Zones.
 Palæontology, America (N.).—Weeks, F. B.
 —, America (S.).—Villareal, F.
 —, biogenetic law &.—Smith, J. P.
 —, England (N.), 1894 & 1895.—Sheppard, T.
 —, photomicrography &.—Rowe, A.
 —, text-book.—Zittel, K. A. von.
Palæonycteris.—Kinkelin, F.
Palæophonus.—Laurie, M.
Palæopropithecus.—Grandidier, G.
Palæosolaster.—Stuertz, B.
Palæospondylus.—Dean, B.
Palæostachya.—Scott, D. H.
 Palæozoic brick-earths.—Greenwell, A.
 —, crustacean tracks.—Packard, A. S.
 —, Spain.—Bergeron, J.
 —. *See also* Cambrian, Limestone, &.
 Palagonite-formation, Iceland.—Pjeturs-son, H.
 Palermo (Sicily).—Angelis d'Ossat, G. de; Gregorio, A. de.
Paleschara.—Grabau, A. W.
Paliurus.—Hague, A., &c.; Peola, P.
Palmatopteris.—Zeiller, R.
 Pampas formation.—Nordenskjöld, O.
 Pan, hard.—Cameron, F. K.
 Panama (C. Am.).—Bertrand, M., &c.
 Pangkadjene (Celebes).—Buecking, H.
 Pannonian.—Lœrenthey, —.
Panopæa.—Bœckh, H.; Wollemann, A.
 —, -sands, Belgium.—Van Ertborn, Baron O.
Panopeus.—Segerberg, K. O.
 Paposite.—Darapski, L.
Parabolinella.—Reed, F. R. C.
Paracladiscites.—Mojsisovics, E. von.
Paracyathus.—Dennant, J.
Paracyclas.—Grabau, A. W.
Paracytheridea.—Lienenklaus, E.
Paradoxides.—Matthew, G. F.
Paradoxostoma.—Lienenklaus, E.
Parailurus.—Schlosser, M.
Parajuvavites.—Mojsisovics, E. von.
 Paralaurianite.—Smith, G. F. H.
 Parallel-structure, porphyry.—Klemm, G.
 Paraná (Brazil).—Kayser, E.
 —, formation.—Ameghino, F.; Woodward, A. S.
Parasmilia.—Oppenheim, P.
Paratibetites.—Mojsisovics, E. von.
Parazyga.—Grabau, A. W.
 Pardubitz (Bohemia).—Želizko, J. V.
 Paris (France) Basin.—Dollfus, G., &c.; Munier-Chalmas, —.
 —, Exhibition.—Bourgeois, L.; Gilpin, E., jun.; Tornquist, A.
 —, Museums. *See* Museums.
Parisocrinus.—Springer, F.
 Párkány (Hungary).—Koch, A.
Parmophorella.—Matthew, G. F.
 PARSY, L.—Beaugrand, C.
 Pas-de-Calais (France).—Berton, L.; Breuil, —; Gosselet, J.; Laffite, H.; Lebesconte, P.; Rutot, A.; Sauvage, H. E.; Simon, A.
 Pasco, Cerro de (Peru).—Gascuel, L.
 PASSMORE EDWARDS MUSEUM.—Dalton, W. H.
 Patagonia.—Ameghino, F.; Brandes, G.; Gaudry, A.; Hatcher, J. B.; Hauthal, R.; Lœnnberg, E.; Mercerat, A.; Moreno, F. P., &c.; Nordenskjöld, O.; Ortman, A. E.; Roth, S.; Scott, W. B.; Steffen, H.; Woodward, A. S.
Patella.—Cossmann, M.
Patellina.—Reade, T. M.
 —, limestone, Egypt.—Chapman, F.
Pattalophyllis.—Oppenheim, P.
Patula.—Miller, K.
 PAUL, C. M.—Tietze, E.
 Paumotu Is. (Pacific).—Agassiz, A.
 Paveletz-Moscow Ry. (Russia).—Bogoslavski, N. A.
 Pavone d'Alessandria (Piedmont).—Peola, P.
 Paxos (Ionian Is.).—Martelli, A.
 Peak Hill (W. Austr.).—Maitland, A. G.
 Pearceite.—Penfield, S. L.
 Peat-bog flora, Christiania.—Holmbæ, J.
 —, Finland.—Andersson, G.; Olsson, P. H.
 —, France.—Lamarlière, L. G. de; Leriche, M.
 —, New York.—Fairchild, H. L.
 —, Hornsea.—Sheppard, T.
 —, Ireland.—Bjœrling, P. R.; Johnson, T.
 —, iron in.—Bemmelen, J. M., &c.
 —, Palæozoic.—Renault, B.
 —, Rome.—Portis, A.
 Pebble-beds, Garonne.—Harlé, E.
 —, Laon.—Gosselet, J.
 —, Midland Bunter.—Bonney, T. G.
 Pebbles, Hanover.—Wiegner, F.
 —, Monte Deruta Miocene exotic.—Angelis d'Ossat, G. de.
 —, Rennes.—Pavot, —.
 —, terminal moraine.—Keilhack, K.
 —. *See also* Windworn, &c.
Pecopteris.—Abbado, M.; Taff, J. A.; Ward, L. F., &c.; White, D.; Zeiller, R.
 Pecos Valley (N. Mex.).—Means, T. H., &c.
Pecten.—Bauer, K.; Bittner, A.; Blanckenhorn, M.; Bœckh, H.; Bornhardt, W., &c.; Burckhardt, C.; Diener, C.; Greco, B.; Greppin, E.; Jukes-Browne, A. J., &c.; Melli, R.; Nelli, B.; Newton, R. B.; Oppenheim, P.; Philippi, E.; Philippi, W.; Schaffer, F.; Sokolov, N.; Tommasi, C.; Tornquist, A.; Ugolini, P. R.; Whiteaves, J. F.; Wollemann, A.; Wolterstorff, W.
 Pectolite.—Clarke, F. W., &c.
Pectunculus.—Bœckh, H.; Roverto, G.

- Pectunculus*-sands, Belgian.—Van Ertborn, Baron O.
- Pegmatite vein-minerals. — Norden-skjöld, Baron A. E.
- Pegwell Bay (Kent).—Rowe, A. W.
- PELLAT Collection. See Museums, Paris.
- Peloriadaspis*.—Grandidier, G.
- Pelorosaurus*.—Sauvage, H. E.
- Peltoceras*.—Burckhardt, C.
- Pelvoux massif (Dauphiné).—Termier, P.
- Pelycosauria.—Bauer, G., &c.
- Pendisetta (Venetia).—Dal Piaz, G.
- Pendulum - observations, Kherson. — Kortazzi, J.
- Peneroplis*.—Chapman, F.
- Pennine Carboniferous.—Hind, W.
- Pennsylvania (U.S.A.).—Hopkins, T. C.; Rand, T. D.
- Pentacrinidea.—Jäkel, O.
- Pentland Hills (Scotland).—Laurie, M.
- Pentremites*.—Rowley, R. R.
- Peplum*.—Philippi, E.
- Perdaliana (Sardinia).—Pampaloni, L.
- Pergensella*.—Gregory, J. W.
- Peridotites, North Carolina.—Pratt, J. H.
- , corundum in.—Vogt, J. H. L.
- , Michigan.—Clements, J. M., &c.
- , Styria.—Ryba, F.
- Perimorphosis, calcite.—Knett, J.
- Perisphinctes*.—Bornhardt, W., &c.; Burckhardt, C.; Crick, G. C.; Söehle, U.
- Perm (Russia).—Louis, D. A.
- Permian, Bohemia & Silesia. — Frech, F.
- , New Mexico.—Herrick, C. L.
- , Saxony.—Beyschlag, F., &c.
- , Thuringia.—Pabst, W.
- Permo-Carboniferous, Asia Minor.—Endlerle, J.
- , East Africa.—Bornhardt, W., &c.
- , Himalayas.—Diener, C.
- , India.—Cadell, H. M.
- , New South Wales, glaciated.—David, T. W. E.
- , Tasmania.—Stephens, T.
- Perna*.—Oppenheim, P.
- Pérouse, Mt. La (Tasmania).—Nicholls, H. W.
- Perowskite.—Boeris, G.
- PERRAUDIN, J. P.—Forel, F. A.
- Persea*.—Hague, A., &c.; Hollick, A.
- Perseoxylon*.—Hague, A., &c.
- Persia.—Crick, G. C.; Guenther, R. T., &c.
- Persian Gulf.—Evans, J. W.
- Perthshire.—Coates, H.; Macnair, P.; Smith, R.
- Peru (S. Am.).—Balta, J.; Gascuel, L.; Raimondi, A.; Villareal, J.
- Pessac (Gironde). — Degrange-Touzin, —; Neuville, M.
- Petalopora*.—Gregory, J. W.
- Petroleum, Brazil.—Branner, J. C.
- Petroleum, Canada. — Ami, H. M.; Bailey, L. W.; Gilpin, E., jun.; Ingall, E. D.
- , Caucasus.—Mauerhofer, J.
- , Hungary.—Böckh, J.
- , United States.—Boyle, P. C.; Cowper, A. S.; Haworth, E.; Hubbard, L. L.; Oliphant, F. H.; Watts, W. L.; White, I. C.
- , Yorkshire.—Elsden, J. V., &c.
- , See also Oil-shale, &c.
- Petrology, North American.—Weeks, F. B.
- , prehistoric implements.—Wilson, T., &c.
- , See also Igneous rocks, &c.
- Peucedanites*.—Kinkelin, F.
- Peucedanum*.—Andersson, J. G.
- Peuque R. (Gironde).—Degrange-Touzin, —.
- Pewsey (Wilts).—Buckman, S. S.
- Phacops*.—Grabau, A. W.; Taff, J. A.
- Phanodesmia*.—Tornquist, A.
- Phæosaccion*.—Robertson, —.
- Phaethonides*.—Grabau, A. W.
- Phaneropterys*.—Cossmann, M.
- Pharmacosiderite.—Hartley, E. G. J.
- Pharostoma*.—Pompeckj, J. F.
- Phascolumys*, *Phascolonus*. — Stirling, E. C., &c.
- Phasianella*.—Cossmann, M.
- Phenocrysts.—Crosby, W. O.
- Philhedra*.—Huene, F. von.
- Philippine Is.—Anon. 35; Rice, G. D.
- Phillipsia*.—Diener, C.; Scupin, A.; Wolterstorff, W.
- Phlaocyon*.—Wortman, J. L., &c.
- Phlyctænaspis*.—Fox, H., &c.
- Phænicopsis*.—Nathorst, A. G.
- Pholadella*.—Grabau, A. W.; Kayser, E.
- Pholadomya*. — Bornhardt, W., &c.; Greppin, E.; Hague, A., &c.; Nelli, B.; Vogel, F.; Wollemann, A.
- Pholas*.—Harris, G. D.; Wollemann, A.
- Pholidophorus*.—Eastman, C. R.
- Pholidops*.—Grabau, A. W.; Huene, F. von.
- Phonolite.—Berwerth, F.; Gregory, J. W.; Prior, G. T.
- Phosphates, Belgium.—Cornet, J.
- , Brittany soils.—Lechartier, G.
- , Egypt.—Barron, T., &c.
- , fluorspar in.—Bemmelen, J. M. van, &c.
- , natural.—Hartley, E. G. J.; Husak, E., &c.; Prior, G. T.; Teall, J. J. H.
- , Picardy.—Gosselet, J.
- , Tennessee.—Hayes, C. W.
- Phosphatic chalk, Baudour.—Cornet, J.
- , Roisel.—Gosselet, J.
- nodules.—Jukes-Browne, A. J.
- Photinula*.—Bornhardt, W., &c.
- Photographs, geological.—Watts, W. W.

- Photomicrography, fossils &.—Rowe, A. W.
Phragmites & *Phyllites*.—Hague, A., &c.
Phylloceras.—Bellini, R.; Fucini, A.; Hug, O.; Loriol, P. de; Mojsisovics, E. von; Simionescu, J.
Phyllocenia.—Schle, U.
Phyllopoda, Palæozoic.—Jones, T. R.
Phylloteuthis.—Whiteaves, J. F.
Phyllothea.—Zeiller, R.
Phytoptocacidium.—Andersson, G.
Pia spring (Spa).—Dewalque, G.
Picardy (France).—Gosselet, J., &c.
Picea.—Fliche, P.
Piceno (Abruzzi).—Bonarelli, G.
Picton (Ont.).—Drummond, A. T.
Pictou (Colo.).—Meade, F.
Piedmont (Italy).—Baldacci, L., &c.; Capeder, G.; Colomba, L.; Davis, W. M.; Franchi, S.; Peola, P.; Piolti, G.; Sacco, F.; Schaffer, F.; Stella, A.; Struever, J.
PIDGEON, D.—Anon. 24.
Pietre verdi, Aosta Valley. — Franchi, S.
Pikermi fauna, Vienna.—Vacek, M.
Pikes Peak (Colo.).—Mathews, E. B.
Piladite.—Læwinson-Lessing, F.
Pilas, Las, volcano (Nicaragua).—Sapper, C.
Pileolus.—Bœhm, J.; Cossmann, M.
Pinacoceras.—Diener, C.; Mojsisovics, E. von.
Pinguente (Istria).—Oppenheim, P.
Pinites.—Seward, A. C.
Pinna.—Rovert, G.; Stefano, G. de; Wollemann, A.
Pinnacle Hills (N.Y.).—Fairchild, H. L.
Pinnatopora.—Rogers, A. F.
Pinus.—Hague, A., &c.; Hofmann, A.; Peola, P.; Ward, L. F., &c.
Pinzgau, Upper (Salzburg).—Abel, O.
Pipes, sandstone.—Greenly, E.
Pipetella.—Vinassa de Regny, P. E.
Pisa (Tuscany).—Ugolini, P. R.
Pisano, Mt. (Tuscany).—Vinassa de Regny, P. E.
Piscicola.—Andersson, J. G.
Pisidium.—Rovert, G.
Pisolitic iron-ore, Meurthe-et-Moselle.—Bleicher, G.; Villain, P.
Pistosaurus.—Schrammen, A.
Pityanthus, *Pityophyllum*, & *Pityospermum*.—Nathorst, A. G.
Pityoxylon.—Hague, A., &c.
Placites.—Mojsisovics, E. von.
Placœnia & *Placodus*.—Schle, U.
Placosmilæ.—Gregory, J. W.; Oppenheim, P.
Placotrochus.—Dennant, J.
Placunopsis.—Philippi, E.
Plagioclase.—Duparc, L., &c.; Fedorov, E. von. *See also* Felspars.
Plagioclasts.—Winchell, A. N.
Plagioliparite.—Duparc, L., &c.
Plagiophthalmus.—Segerberg, K. O.
Plagiostoma.—Greppin, L.
Plagnotte (Ariège).—Harlé, E.
Plains, origin of.—Marr, J. E.
— *See* Steppes.
Pläner limestone.—Bergt, W.
Planolites.—Walcott, C. D.
Planorbis.—Miller, K.
Plants, Carboniferous.—Abbado, M.; Beyschlag, F., &c.; Bureau, E.; Grand'Eury, F. C.; Gresley, W. S.; Hofmann, A., &c.; Scott, D. H.; Seward, A. C.; Taff, J. A.; White, D.; Wild, G.; Zeiller, R.
—, causes of errors in determination.—Bommer, C.
—, climates, &c.—Zeiller, R.
—, Cretaceous.—Bornhardt, W., &c.; Hague, A., &c.; Knowlton, F. H.; Potonié, H.; Popovič-Hatzeg, V.; Seward, A. C.; Ward, L. F., &c.; Whiteaves, J. F.
—, Devonian.—Ami, H. M.; Nathorst, A. G.; Scott, D. H.
—, food of.—Pearson, H. H. W.
—, geology & distribution of.—Parsons, H. F.
—, Glacial Period & Irish.—Colgan, N., &c.; Hart, H. C.; Scharff, R. F.
—, — Central European.—Weber, C. A.
—, gold-deposits &.—Lungwitz, E.
—, Guttannen supposed.—Bonney, T. G.
—, Jurassic.—Nathorst, A. G.; Scott, D. H.; Seward, A. C.; Zeiller, R.
—, Ordovician.—Sardeson, F. W.
—, Permian.—Sellards, E. H.
—, Permo-Carboniferous.—Bornhardt, W., &c.; Potonié, H.
—, Quaternary.—Andersson, G.; Hollick, A.; Holmbœ, J.; Kjellmark, K.; Lamarlière, L. G. de.
—, Silurian.—Ami, H. M.; Schubert, R. J.
—, supposed.—Blanckenhorn, M.
—, Tertiary.—Delheid, E.; Fliche, P.; Hague, A., &c.; Hofmann, A.; Hollick, A.; Kinkelin, F.; Knowlton, F. H.; Mercat, A.; Peola, P.; Potonié, H.; Scott, D. H.; Seward, A. C.
—, text-books on fossil.—Scott, D. H.; Zeiller, R.
—, Triassic.—Blanckenhorn, M.; Scott, D. H.; Shaler, N. S., &c.
—, Yale Museum.—Ward, L. F.
Plasmopora.—Lambe, L. M.
Plasticity, rock - formation &.—Spring, W.
Plataninium.—Hague, A., &c.
Platanus.—Hague, A., &c.; Ward, L. F., &c.
Plateau, French Central.—Boule, M.; Michel-Lévy, A.
— gravels. *See* Gravels.
Platecarpus.—Osborn, H. F.

- Platinum, Urals.—Louis, D. A.; Purington, C. W.
 Platte R. (Nebraska).—Gould, C. N.
Platyceras.—Grabau, A. W.; Hague, A., &c.; Matthew, G. F.
Platycrinus & *Platyostoma*.—Grabau, A. W.; Hague, A., &c.
Plectronia.—Hinde, G. J.
 Pleistocene. *See* Quaternary.
Plesiadapis.—Major, C. I. F.
Plesiaster.—Schlueter, C.
Plesiochelys.—Hookey, R. W.
Plesiosaurus.—Knight, W. C.; Sheppard, T.
Plesiospatangus.—Gauthier, V.
Plethomytilus.—Grabau, A. W.
Plethospira.—Taff, J. A.
Pleuraspidothierium.—Pavlov, M.
Pleurodictyum.—Fox, H., &c.; Grabau, A. W.
Pleuromya.—Bornhardt, W., &c.; Burckhardt, C.; Greppin, E.; Hague, A., &c.; Jukes-Browne, A. J., &c.; Whiteaves, J. F.
Pleuromytilus.—Mojzsisovics, E. von; Reed, F. R. C.; Tommasi, C.
Pleuronectites.—Salomon, W.; Tornquist, A.; Wolterstorff, W.
Pleurophorus.—Herrick, C. L.; Newton, R. B.; Taff, J. A.
Pleurotoma.—Bauer, K.; Cossmann, M.; Harris, G. D.; Newton, R. B.; Roverto, G.
Pleurotomaria.—Enderle, J.; Hague, A., &c.; Herrick, C. L.; Koken, E.; Morena, T.; Murdoch, R.; Roverto, G.; Vincent, E.; Yakovlev, N.
Plicatula.—Burckhardt, C.; Jukes-Browne, A. J., &c.; Lorient, P. de; Wollemann, A.
Plinthiotheca.—Zeiller, R.
 Pliocene, Emilia.—Sangiorgi, D.
 —, East of England.—Harmer, F. W.
 —, Hesse.—Reichenau, W. von.
 —, New Zealand.—Murdoch, R.
 —, Persia.—Guenther, R. T., &c.
 —, skull, Californian human.—Blake, W. P.
 —, Tuscany.—Bosco, C.; Ugolini, R.
 —. *See also* Tertiary.
 Plumbogummite.—Hartley, E. G. J.; Miers, H. A.; Prior, G. T.
 Plusinglanz [?]—Frenzel, A.
Poacites.—Hollick, A.
 Podgradje (Croatia).—Gorjanović-Kramberger, K.
Podocertes.—Schluter, C.
Podocnemis.—Andrews, C. W.
Podozamites.—Nathorst, A. G.
 Poggia (Tuscany).—Salle, E.
 Poland (Russian).—Guerich, G.; Niezabitowski, E. L.
 Poles, N. & S.—Galloway, W. B.
 Polesworth (Warwick).—Fox-Strangways, C.
Polyacrodon.—Roth, S.
 Polybasite.—Penfield, S. L.
Polygnathus.—Grabau, A. W.
Polymorphina.—Fornasini, C.
Polymorphites.—Hug, O.
Polyphylloseris.—Bornhardt, W., &c.
Polypora.—Grabau, A. W.; Rogers, A. F.
Polystomella.—Reade, T. M.
Polytrema.—Chapman, F.
Polytrema.—Gregory, J. W.; Schiele, U.
 Polyzoa. *See* Bryozoa.
Pomelia.—Lorient, P. de.
 Pomerania (Germany).—Baltzer, A.; Berendt, G.; Gagel, C.; Keilhack, K.; Klebs, R.; Krusch, P.; Michael, R.; Schmidt, M.; Schröder, H.; Schulte, L.
Pontocypris.—Lienenklaus, E.
Populus.—Andersson, G.; Hague, A., &c.
 Pores, crinoid.—Bather, F. A.
 Porifera, Carboniferous.—Hague, A., &c.
Porites.—Andrews, C. W., &c.; Schiele, U.
Poroxylon.—Scott, D. H.
 Porphyritic texture, origin.—Crosby, W. O.
 Porphyry.—Berwerth, F.; Franchi, S.; John, C. von; Klemm, G.; Rosenbusch, H.; Whitby, J. E.
 Portland, I. of (Dorset).—Bullen, R. A.
Portlockia.—Yakovlev, N.
 Portneuf (Quebec).—Dawson, G. M.
 Portugal.—Choffat, P.; Delgado, J. F. N.; Ferreira da Silva, A. J., &c.; Nehring, A.
 Portuguese East Africa.—Peters, C.; Potonié, H.
 Posen (Prussia).—Maas, G.; Wahn-schaffe, F.
Posidomya.—Tommasi, C.
Posidonia.—Burckhardt, C.
 Post-Carboniferous coalfields.—Anon. 46.
 Post-Glacial. *See* Quaternary.
 Post-Pliocene, Archangel & Spitsbergen.—Knipovich, A.
 Post-Tertiary. *See* Quaternary.
Potamides.—Bauer, K.; Bæckh, H. Roverto, G.
Potamogeton.—Andersson, J. G.
 Potaro R. (British Guiana).—Harrison, J. B.
 Potholes. *See* Giants' kettles.
Potonia.—Zeiller, R.
 Potsdam formation.—Catlett, C.
 Pożoritta (Galicia).—John, C. von.
 Prague (Bohemia).—Polak, J. M.
 Praust (W. Prussia).—Wolff, W.
 Pre-Cambrian, Charnwood Forest.—Fox-Strangways, E., &c.
 —, North America.—Leith, C. K.; Walcott, C. D.
 —, Radnor & Gloucester.—Callaway, C.
 —, Scotland.—Geikie, Sir A.

- Precious stones.—Kunz, G. F.; Maguire, —; Ehlich, H.
 Preding (Styria).—Holler, A.
 Prehnite.—Clarke, F. W., &c.; Kunz, G. F.; Lacroix, A.
 Přelouč (Bohemia).—Želízko, J. V.
 Presolana (Lombardy).—Mariani, E.
 Presburg (Hungary).—Schaffer, F.
 Prestongrange (Haddington).—Brown, M. W.
 Pretoria (Transvaal).—Lyburn, E. St. J.
 Priabona (Tuscany).—Oppenheim, P.
 Priabonian.—Flick, —; Oppenheim, P.
 Příbram (Bohemia).—Beck, R.
 Přidolí (Bohemia).—Eichleider, C. F.
 Priest R. (Ido).—Leiberg, J. B.
 Primates, Madagascar.—Major, C. I. F.
Primitia & *Primitopsis*.—Grabau, A. W.
 Primorsk (Siberia).—Bittner, A.
Prionastrea.—Andrews, C. W., &c.; Gregory, J. W.
Prioniodus.—Grabau, A. W.
 PRITCHARD, E.—Anon. 25.
Proarcestes.—Tommasi, C.
Proboscina.—Gregory, J. W.
Procamelus.—Douglass, E.
Procladiscites.—Diener, C.; Tommasi, C.
Procynodictis.—Wortman, J. L.
Productella.—Grabau, A. W.; Hague, A., &c.
Productus.—Diener, C.; Enderle, J.; Guerich, G.; Hague, A., &c.
 — limestone, Salt Range.—Nötling, F.
Proetus.—Grabau, A. W.; Guerich, G.; Hague, A., &c.
Prolagus.—Major, C. I. F.
Promathildia.—Yakovlev, N.
Prosodacna.—Gorjanovič-Kramberger, K.
 Prosopite.—Kunz, G. F.
Protarea.—Lambe, L. M.
Proteodelphis.—Ameghino, F.
Protethmos.—Gregory, J. W.
Protocardia.—Bornhardt, W., &c.; Vogel, F.
Protocardium.—Whiteaves, J. F.
Protolabis.—Douglass, E.
Protolenus.—Matthew, G. W.
Protoretepora.—Diener, C.
Protorhipis.—Seward, A. C.
Protosalvinia.—Ami, H. M.
Protosphyraena.—Loomis, F. B.
Protrachyceras.—Tommasi, C.
Protrachycerata.—Mojsisovics, E. von.
Protostega.—Wieland, G. R.
 Protozoa, Carboniferous.—Hague, A., &c.
 Proustite.—Achiardi, G. d'.
 Provence (France).—Bertrand, M., &c.; Depéret, C.; Fournier, E.; Haug, C.; Kilian, W.; Lacroix, A.; Oppenheim, P.; Répelin, J.; Riaz, A. de.
 Prussia (E.).—Gagel, C.; Jentzsch, A.; Kaunhowen, F.; Klautzsch, A.; Krause, P. G.; Mueller, G.; Nehring, A.
 — (W.).—Gruner, H.; Jentzsch, A.; Kuehn, B.; Maas, G.; Wolff, W.; Zeisse, O.
 —. See also Geological Survey, Posen, &c.
Psammosolen.—Bauer, K.
Psaronius.—Scott, D. D.
Psephophorus.—Wieland, G. R.
Pseudamussium.—Philippi, E.
Pseudobornia.—Nathorst, A. G.
Pseudochalcedony.—Lacroix, A.
Pseudocrania.—Huene, F. von.
Pseudodiadema.—Gregory, J. W.; Loriol, P. de.
Pseudokingena.—Bose, E., &c.
Pseudoliva.—Harris, G. D.
Pseudomelania.—Cossmann, M.; Vogel, F.
Pseudometoptoma.—Huene, F. von.
Pseudomonotis.—Bittner, A.; Burckhardt, C.; Herrick, C. L.; Loriol, P. de; Salomon, W.
Pseudomorphs.—Doll, E.; Lacroix, A.; Millosevich, F.; Samoilov, J.
Pseudonerinea.—Cossmann, M.
Pseudopicopteris.—Taff, J. A.; White, D.
Pseudotheca.—Redlich, K.
Pseudothyridus.—Loomis, F. B.
Psiloceras.—Hug, O.; Holland, F.
Pteraspis.—Fox, H., &c.
Pterinea.—Grabau, A. W.; Newton, R. B.; Philippi, E.
Pterinopecten.—Grabau, A. W.
Pteris.—Hollick, A.
Pterocera.—Bornhardt, W., &c.; Sæhle, U.
Pteroconus.—Fox, H., &c.
Pteronautilus.—Yakovlev, N.
Pteroperna.—Greppin, E.; Newton, R. B.; Vogel, F.
 Pteropoda.—Fox, H.; Grabau, A. W.
 See also Gasteropoda.
Pterophyllum.—Nathorst, A. G.
Pterospermites.—Hague, A., &c.
Ptilodictya.—Grabau, A. W.
Ptychites.—Diener, C.; Mariani, E.; Mojsisovics, E. von.
Ptychocarpus.—Zeiller, R.
Ptychoceras.—Harris, G. D.
Ptychodus.—Williston, S. W.
Ptychomya.—Bornhardt, W., &c.
Ptychoparia.—Hague, A., &c.; Matthew, G. F.; Redlich, K.; Toll, Baron E. von.
Ptychoxylon.—Scott, D. H.
Ptygmatis.—Cossmann, M.
 Puerco formation.—Matthew, W. D.
 Puerto Rico (W. I.).—Hill, R. T.; Nitze, H. B. C.
 Puketitiri (N.Z.).—Hill, H.
Pulchellia.—Simionescu, J.
Pullastra.—Rovert, G.

- Pulli, Mt. (Vicenza).—Velio, Z.
 Pumice.—Rutley, F.
Pupa.—Miller, K.
 Puponga (N.Z.).—McKay, A.
 Purbeck Beds, South-west of England.—
 Van den Broeck, E. *See also* Jurassic,
 &c.
 — (I. of).—Hudleston, W. H., &c.
 Purley (Surrey).—Dibley, G. E.; Robarts,
 N. F.
Purpuroidea.—Cossmann, M.
 Puruni R. (British Guiana).—Harrison,
 J. B., &c.
 Puster Valley (Tyrol).—Salomon, W.
 Putschum-beds.—Gregory, J. W.
 Puy-de-Dôme (Auvergne).—Boule, M.,
 &c.; Giraud, J.; Lacroix, A.; Michel-
 Lévy, A.
 Puy (Dieppe).—Jukes-Browne, A. J.
Puzosia.—Popovič-Hatzeg, V.; Whit-
 eaves, J. F.
 Pyrrargyrite.—Achiardi, G. d'; Klock-
 mann, F.
 Pyrenees.—Anon. 62; Bresson, A.;
 Caralp, —; Fabre, L. A.; Klockmann,
 F.; Lacroix, A.; Michel-Lévy, A.,
 &c.; Stuart-Menteath, P. W.; Trutat,
 E.
Pyrgulina.—Sokolov, N.
 Pyrites.—Evans, J. W.; Hintze, C.;
 Riva, C.; Rollier, L., &c.; Zimányi,
 K.
Pyrotherium-beds.—Ameghino, F.
 Pyroxene.—Berwerth, F.; Bowman, H.
 L.; Daly, R. A.; Viola, C., &c.; Zam-
 bonini, F.
 Pyroxenites.—Holland, T. H.
Pyrrula.—Newton, R. B.
Pythiopsis.—Rovert, G.
Pyxidicula.—Rothpletz, A.
- Quarries, Great Britain, &c.—Atkinson,
 J. B., &c.; *see also* Foster, C. Le N.,
 &c.
 Quartz.—Bodmer-Beder, A.; Fantappiè,
 L.; Kaiser, E.; Kunz, G. F.; Ries,
 H.; Samoilov, J.; Termier, P.; Van-
 hove, D.; Viola, C.
 — crystals.—Achiardi, G. d'.
 — muscovite, Nevada. — Spurr, J.
 E.
 — porphyry, Thuringia.—Klemm, G.
 — in Tuscan chalk.—Achiardi, G. d'.
 Quartzite, Piedmont.—Colomba, L.
 —, Wisconsin.—Hubbard, G. D.
 Quaternary, Aisne.—Ladrière, J.
 —, Algeria.—Lamothe, L. J. B. de.
 —, Anglo-Franco-Belgian basin.—Ru-
 tot, A.
 —, Argentina.—Nordenskjöld, O.
 —, Belgium.—Cornet, J.; Delheid, E.;
 Dewalque, G., &c.; Forir, H.; Rutot,
 A.; Van Ertborn, Baron O.
 —, Bohemia.—Hibbs, J. E.
 —, Canada.—Coleman, A. P.; Dawson,
 Sir J. W.
- Quaternary, classification of.—Krishta-
 fovich, N.
 —, Connecticut.—Gulliver, F. P.
 —, Denmark.—Madsen, V.; Munthe,
 H.
 —, England.—Bullen, R. A.; Chap-
 man, F.; Hinton, M. A. C.; Lones,
 T. E.; Reade, T. M.; Rutot, A.;
 Sheppard, T. *See also* Drift, &c.
 —, Europe, Central.—Weber, C. A.
 — fauna. *See* Mammalia, &c.
 —, ferruginous clay.—Meunier, S.
 —, Finland.—Ardaillon, E.; Olsson,
 P. H.; Sederholm, J. J.
 —, France.—Bigot, A.; Breuil, —;
 Desailly, L.; Lorient, J.; Leriche, M.;
 Meunier, S.; Rutot, A.; Skrodzki,
 J.
 —, Germany (N.).—Klebs, R.; Kørt,
 —; Mass, G., &c.; Wiegiers, F.
 —, Gotland.—Munthe, H.
 —, Italy.—Neviani, A.; Stefano, G.
 de; Vinassa de Regny, P. E.
 —, Moel Tryfaen.—Greenly, E., &c.
 —, Patagonia.—Ameghino, F.; Hatch-
 er, J. B.
 —, Red Sea.—Newton, R. B.
 —, Rhenish Bavaria.—Bayberger, F.;
 Thuerach, H.
 —, Rhône.—Baltzer, A.
 —, Rumania.—Mrazec, L.
 —, Russia.—Knipovich, N.; Volloso-
 vich, K. A.
 —, St. Gallen.—Gutzwiller, A.
 —, Silesia.—Wysogorski, J.
 —, Thuringia.—Möller, H.
 —, Vienna Basin.—Karrer, F.
 —, Wisconsin.—Baker, F. C.
 —, Württemberg.—Koken, E.
 Quatre-Bras (Antwerp).—Van Ertborn,
 Baron O.
 Quebec (Canada).—Chalmers, R.
 Queen Charlotte Is. (British Columbia).
 — Whiteaves, J. F.
 Queensland.—Anon. 46; Bulman, H.
 F.; Cameron, W. E.; Dunstan, B.;
 Rands, W. H.; Stokes, H. G.
Quenstedtia.—Greppin, E.
Quercinium.—Hague, A., &c.
Quercophyllum.—Ward, L. F., &c.
Quercus.—Hague, A., &c.; Hollick, A.;
 Ward, L. F., &c.
 Quicksand, Wyoming.—Williams, G. M.
- Radau Valley (Harz).—Scheibe, R.
 Radiation-figures.—Blanckenhorn, M.
 Radiolaria, Chalk.—Holmes, W. M.
 —, Tertiary. — Vinassa de Regny, P.
 E.
Radiolites.—Bornhardt, W., &c.
 Radnor (Wales).—Callaway, C.; Lap-
 worth, H.
 Rafruti (Berne).—Fellenberg, E. von.
 Raiblian.—Zittel, K. A. von.
 Rainford (Lancs).—Caldwell, G.
 Rainy R. (Ont.).—McInnes, W.

- Raised beaches, Gower.—Tiddeman, R. H.
 ———, Red Sea.—Newton, R. B.
 ———, Sussex.—Chapman, F.
 Rakas-Tal Lake (Asia).—Strachey, Sir R.
 RAMELSBERG, C. F. — Bauer, M.; Hutchinson, A.; Voit, C. von.
 Ramsgate (Kent).—Rowe, A. W.
Randomia.—Matthew, G. F.
Rangifer.—Jentzsch, A.
Raninella.—Segerberg, K. O.
 Ranipur (India).—Reader, G. F.
Ranunculus.—Andersson, J. G.
 Raphaelite.—Smith, G. F. H.
Raphistomella.—Yakovlev, N.
Raphitoma.—Cossmann, M.; Matthew, G. F.
 Rathite.—Solly, R. H.
 Rauracian.—Skrodzki, J.
 Ravennese (Reggio Calabria).—Stefano, G. de.
 Read, Mt. (Tasmania).—Johnston, R. M.
 Real del Monte, (Mexico).—Ordóñez, E.
Receptaculites.—Guerich, G.
Rectecava.—Gregory, J. W.
 Recoaro (Vicentino).—Tornquist, A.
 REEDMAN, J. B.—Anon. 26.
 Redon (Britanny).—Lechartier, G.
 Red Hill (Surrey).—Anon. 64.
 Red R. valley (Cornwall).—Stephens, F. J.
 Red Sea.—Issel, A.; Newton, R. B.
 Reef-limestone mollusca, Christmas I.—Newton, R. B.
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 Régalon (Vaucluse).—Martin, D.
 Regent's Park (London).—Sclater, P. L.
 Reggio Calabria (Italy).—Stefano, G. de.
 Reichen (Basel).—Seeley, H. G.
 Reigate (Surrey).—Anon. 64.
Reineckeia.—Burckhardt, C.
 Reinhardswalde (Hesse).—Linstow, O. von.
 Rélizane (Oran).—Fabre, G.
Renaultia.—Scott, D. H.; Zeiller, R.
 Rennes (Britanny).—Pavot, —.
Reptaria.—Grabau, A. W.
Reptelea.—Gregory, J. W.
 Reptilia, Cretaceous. — Depéret, C.; Hooley, R. W.; Osborn, H. F.; Parmenter, C. S.; Van den Broeck, E.; Wieland, G. R.
 ———, Jurassic. — Geinitz, E.; Holland, W. J.; Knight, W. C.; Lakin, M. H., &c.; Lennier, G.; Lydekker, R.; Osborn, H. F.; Savalle, E., &c.; Sauvage, H. E.; Sheppard, T.; Van den Broeck, E.; Wieland, G. R.
 ———, Old Red Sandstone.—Burckhardt, R.
 ———, Permian. — Beyschlag, F., &c.; Pabst, W.; Seeley, H. G.; Twelvetrees, W. H.; Williston, S. W.
 Reptilia, Quaternary. — Moreno, F. P., &c.
 ———, Tertiary.—Ameghino, F.; Andrews, C. W.; Bauer, G., &c.; Delheid, E. Moreno, F. P., &c.; Zietz, A.
 ———, Triassic.—Broom, R.; Burckhardt, R.; Fraas, E.; Schrammen, A.; Seeley, H. G.; Ward, J.
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 Repton (Derby). — Fox-Strangways, C., &c.
 Resin, Landenian.—Meunier, F.
Retecrisina.—Gregory, J. W.
Reteporina.—Grabau, A. W.
Reticularia.—Enderle, J.; Hague, A., &c.; Taff, J. A.
Reticulopora. — Gregory, J. W.; Ortmann, A. E.
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Retzia.—Bittner, A.; Rowley, R. R.
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Rhabdocladia.—Rogers, A. F.
Rhabdocyathus.—Toll, Baron E. von.
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Rhadinichthys.—Wellburn, E. D.
 Rhætian Alps.—Benecke, E. W.; Bodmer-Beder, A.; Rothpletz, A.
 Rhætic, Bristol.—Wickes, W. H.
Rhamnacinium.—Hague, A., &c.
Rhamnus.—Andersson, J. G.; Hollick, H.
 Rhayader (Radnor).—Lapworth, H.
 Rhenish Bavaria.—Bayberger, F.; Reis, O. M.; Thuerach, H.
 Rhenish Prussia.—Dannenberg, A., &c.; Grebe, H.; Holzapfel, E.; Kayser, E.; Leppla, A.; Mehring, R.; Philippson, A.; Rein, J.
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 ———, palæo.—Jervis, W. P.
 ——— valley, Baden & Rhenish Palatinate.—Thuerach, H.
Rhineoderma.—Yakovlev, N.
Rhinidictya.—Sardeson, F. W.
Rhinobolus.—Huene, F. von.
Rhinoceros.—Andrews, C. W.; Boule, M.; Möller, H.; Stefano, G. de; Vacek, M.
Rhipidomella.—Grabau, A. W.; Rowley, R. R.; Taff, J. A.
Rhizodopsis.—Guerich, G.
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 Rhône Glacier (Switzerland).—Baltzer, A.; Richter, E.
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 Rhynchocephalia.—Newton, E. T.
Rhynchodus.—Huene, F. von.
Rhyncholites.—Vincent, E.
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- C.; Forir, H.; Greco, B.; Hague, A., &c.; Herrick, C. L.; Jukes-Browne, A. J., &c.; Koken, E.; Popovič-Hatzeg, V.; Remes, M.; Simionescu, J.; Simoons, G.; Schiele, U.; Tate, R.; Tommasi, C.; Upton, C.; Whiteaves, J. F.
- Rhynchonellina*.—Enderle, J.; Mariani, E.; Schiele, U.
- Rhyolite.—Clements, J. M., &c.; Elsdén, J. V., &c.; Hague, A., &c.; Rutley, F.
- Riazan-zone.—Bogoslovski, N.
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- Richmond Basin (Va.).—Shaler, N. S., &c.
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- Riebeckite.—Prior, G. T.
- Riesengebirge (Silesia).—Guerich, G.; Leppla, A.
- Ringicula*.—Cossmann, M.; Murdoch, R.; Sokolov, N.
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- Rio Grande do Norte (Brazil).—Branner, J. C.
- Ripetta (Rome).—Clerici, E.
- Ripple-marks.—Gilbert, G. K.
- Riva (Tyrol).—Schaffer, F.
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- robbing.—Lane, A. C.
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- , subterranean.—Martel, E. A.
- terraces.—Gulliver, F. P.; Hinton, M. A. C.
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- , Black Forest.—Neumann, L.
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- , Patagonia.—Steffen, H.
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- , United States.—Shaler, N. S.
- , Wales (N.).—Lake, P.
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- Road-metal. — Herrmann, O.; Jukes-Browne, A. J., &c.; Katzer, F.; Martens, A., &c.; Reid, H. F.
- Rochester (Kent). — Dibley, G. E.; Whitaker, W.
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- , flow of.—Adams, F. D.
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- Rossano (Calabria).—Ugolini, P. R.
- Rossland (British Columbia).—Lakes, A.
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- Rotti I. (D.E.I.).—Boehm, G.
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- Roxby (Lincoln).—Preston, H.
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- Royat (Auvergne).—Glangeaud, P.
- Rubble-drift, Aldrington. — Chapman, F.
- , Portland.—Bullen, R. A.
- Rubus*.—Andersson, G.
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- Rudolf, Lake (Equatorial Africa).—Angellis d'Ossat, G. de, &c.; Smith, A. D.
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- Rügen (Baltic).—Baltzer, A.; Keilhack, K.
- Rumania.—Athanasii, S.; Mrazec, L. Poni, P.; Popovič-Hatzeg, V.; Simionescu, J.; Ștefănescu, G.

- Rumex*.—Andersson, J. G.
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 ——— Gallen (Switzerland).—Gutzwiller,
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 ——— Gaultier (Indre).—Cossmann, M.
 ——— George's Channel. — Martin, E.
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 ——— Jean - Pied - de - Port (Béarn). —
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 ——— Martin (Périgord).—Lalande, P.
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 ——— Sandoux (Auvergne). — Lacroix,
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Salix.—Hague, A., &c.
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 ———, Kansas.—Haworth, E.
- Salt-deposits, Louisiana.—Lucas, A. F.;
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 ———, Meurthe-et-Moselle. — Le-
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 ———, Michigan. — Hubbard, L.
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 ———, Prussia.—Van't Hoff, J. H.,
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 ———, Russia.—Katzer, F.
 ———, United States. — Parker, E.
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 ——— Lake (Utah).—Gardner, F. D., &c.;
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 A.; Böhm, A.; Fugger, E.
 Salzkammergut (Austria).—Diener, C.;
 John, C. von.
 Sambre & Meuse (Namur).—Cornet, J.;
 Rutot, A.
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 ——— Jacinto (Cal.).—Claypole, E. W.
 ——— José (Chile).—Brant, G.
 ——— Juan de las Abadesas (Catalonia).
 ——— Vidal, L. M.
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 Sand-la-Mere (Yorks).—Sheppard, T.
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 ———, Dunkerque.—Gosselet, J.
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 Street, A. W.
 ———, Molinchart.—Gosselet, J.
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 ———, silver-bearing.—Maguire, —.
 ———, United States.—Day, W. C.
 ———, Yorkshire.—Elsden, J. V., &c.
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- Santiago Valley (Mexico).—Ordóñez, E.
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 Sarraho (Sardinia).—Achiardi, G. d'.
 Sarsen, South Kensington.—Woodward, H. B.
 Sarthe (France).—Grossouvre, A. de; Ehlert, D. P.
 Sartorite.—Solly, R. H.
Sassafras.—Ward, L. F., &c.
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 Savoy (France).—Bertrand, M., &c.
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Scaphiocrinus.—Beede, J. W.; Springer, F.
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 Shropshire.—Callaway, C.; Clarke, W. J.; Elles, G. L.; Wood, E. M. R.
 Siberia.—Beazley, C. R.; Bittner, A.; Diener, C.; Glasser, E.; Montessus de Ballore, F. de; Toll, Baron E. von.
 Sibillini, Mt. (Abruzzi).—Moderni, P.
 'Siboga' Expedition.—Anon. 47; Weber, M.
 Sicily.—Angelis d'Ossat, G. de; Coppa, A.; Rosati, A.; Schaffer, F.; Stefano, G. di.
 Siebengebirge (Rhenish Prussia). — Blanckenhorn, M.; Kayser, E.; Rein, J.
 Siena (Tuscany).—Zanna, P. del.
 Sierra Costa, &c. *See* Costa, &c.
Sigapatella.—Ortmann, A. E.
Sigaretus.—Harris, G. D.
Sigillaria.—Abbado, M.; Grand'Eury, F. C.; Scott, D. H.; White, D.; Zeiller, R.
 Sigmoidal curves.—Gordon, M. M.
 Sigmund Thun (Austria).—Fugger, E.
 Sikait, Wadi (Upper Egypt).—MacAlister, D. A.
 Silberberg (Bavarian Forest).—Weinschenk, E.
 Silchester (Berks).—Blake, J. H.

- Silesia.—Dathe, E.; Frech, F.; Gæbler, C.; Guerich, G.; Leppla, A.; Rimatori, C.; Schrammen, A.; Scupin, H.; Wysogorski, J.
 Silica.—Holmes, W. M.
 —, colloid.—Jukes-Browne, A. J., &c.
 Silicates, action of water on.—Sestini, F.
 —, Scottish.—Heddle, M. F.
 Siliceous calcite.—Penfield, S. L.
 Sillimanite.—Gruenling, F.; Melczer, G.
 Silt, river.—Forlong, J. G. R.; Vernon-Harcourt, L. F.
 Silurian, Baltic.—Huene, F. von.
 —, Barcelona.—Barrois, C.
 —, Belgium.—Malaise, C.
 —, Bohemia.—Bather, F. A.; Eichleiter, C. F.; Pompeckj, J. F.; Schuber, R. J.; Zelizko, J. V.
 —, Britanny.—Kerforne, F.
 —, Canada.—Ami, H. M.; Lambe, L. M.
 —, Colorado.—Lakes, A.
 — & Devonian boundary, N. American.—Williams, H. S.
 —, Gotland.—Törnquist, S. L.
 —, Ireland.—Geikie, Sir A.
 —, Jemtland.—Wiman, C.
 —, Lake District.—Harker, A.
 —, Malverns.—Groom, T. T.
 —, Maryland.—Prosser, C. S.
 —, Missouri.—Rowley, R. R.
 —, Monmouthshire.—Strahan, A.
 —, Montana.—Lakes, A.
 —, Pentland Hills.—Laurie, M.
 —, Radnor.—Lapworth, H.
 —, Russian Poland.—Schmidt, F.
 —, Sardinia.—Canavari, M.
 —, Scotland.—Traquair, R. H.
 —, Spain.—Barrois, C.
 —, Virginia.—Prosser, C. S.
 —, Wales.—Elles, G. L.; Wood, E. M.
 R.
 —. *See also* Fishes, &c.
 Silver, Chile.—Darapski, L.
 —, China.—Navarra, B.
 —, Colorado.—Lakes, A.; Pearce, R.; Van Diest, E. C., &c.
 — distribution.—Beck, R.
 —, Harz.—Beck, R.; Klockmann, F.
 —, Mexico.—Ordóñez, E., &c.
 —, microchemistry of ores.—Lemberg, J.
 —, Montana.—Lakes, A.
 —, New South Wales.—Coghlan, T. A.
 —, bearing sandstone.—Maguire, —.
 —, Siberia.—Glasser, F.
 —, Svealand.—Sjögren, H.
 —, Queensland.—Stokes, H. G.
 —, Tasmania.—Sandemann, J. J.; Haber, E.
 —, Utah.—Maguire, —; Tower, G. W., &c.
 Silver Spur, Texas (Queensl.).—Stokes, H. G.
 Simbirsk Gov. (Russia).—Bogoslovski, N.
 Simbruni, Mt. (Romagna).—Viola, C.
Simosaurus.—Schrammen, A.
 Simplon Tunnel (Valais).—Renevier, E.
 Sinai, Mt. (Arabia).—Chapman, F.
 Sinaia (Rumania).—Popoviči-Hatzeg, V.
 Sinemurian.—Bonarelli, G.
 Sinj (Dalmatia).—Kerner, F. von.
Siphodictyum.—Gregory, J. W.
Siphonalia.—Oppenheim, P.
Siphoniotyphlus.—Gregory, J. W.
Sirenites.—Mojsisovics, E. von.
 Sisteron (Basses-Alpes).—Haug, E.
 Sjøland (Denmark).—Rordam, K., &c.
 Skattmansö (Gotland).—Munthe, H.
 Skye, I. of.—Geikie, Sir A.
 Slate, Angers.—Greenwell, A.
 —, Ardennes.—Reade, T. M.
 —, North Wales.—Reade, T. M.
 —, United States.—Dale, T. N.; Day, W. C.
 Slave Lake, Gt. (Canada).—Hanbury, D. T.
Slimonia.—Laurie, M.
 Sloth, Quaternary.—Ameghino, F.; Hauthal, R.; Mercerat, A.; Moreno, F. P., &c.; Steffen, H.
 Slutsk R. (Russia).—Laskarev, V.
Smilax.—Hague, A., &c.
 Smith Sound (Arctic).—Walcott, C. D.
 Smithsonite.—Millosevich, F.
Smittia.—Neviani, A.
 Smolensk (Russia).—Karakash, N.
 Snowdon (N. Wales).—Dakyns, J. R.
 Soapstone, United States.—Parker, E. W.
 Soar R. (Leicester).—Paul, J. D.
 Socorro (N. Mex.).—Herrick, C. L.
 Sodalite.—Zambonini, F.
 Sodbury (Gloucester).—Buckman, S. S.
 Sohagpur (India).—Reader, G. F.
 Soils, Africa (S. W.).—Wohltmann, F.
 —, analysis.—Mehring, H.; Van den Broeck, E.
 —, ants &c.—Branner, J. C.
 —, Bavaria.—Koken, E.
 —, Belgium.—Buttgensbach, H.; Rutot, A.
 —, boracic acid in.—Raeymaekers, D.
 —, Cape Colony.—Juritz, C. F.
 —, Cologne.—Mehring, H.
 —, Connecticut.—Dorsey, C. W., &c.; Whitney, M.
 —, evaporation, &c.—Briggs, L. J.; Cameron, F. K.
 —, France.—Caraven-Cachin, A.; Gosselot, J.; Lacroix, A.; Lamic, J.; Lechartier, G.
 —, Hungary.—Horusitzki, H.
 —, insects &c.—Branner, J. C.; Keilhack, K.
 —, Maryland.—Whitney, M.
 —, New Mexico.—Means, T. H. Whitney, M.

- Soils, plants &.—Pearson, H. H. W.
 —, Oldenburg.—Martin, J.
 —, Russia.—Bogoslovski, N.; Zemya-
 chenski, P.
 —, sanitation &.—Wellburn, E. D.
 —, Schleswig-Holstein.—Lehmann,
 J.
 —, silicates.—Sestini, F.
 —, subsoils &.—Gosselet, J.
 —, Spezia.—Guidoni, G.
 —, United States Dep. Agric.—Whit-
 ney, M.
 —, Utah.—Gardner, F. D., &c.; Means,
 T. H.; Whitney, M.
 —, water-percolation in.—Boursault,
 H.; Kemna, A.; King, F. H.; Scott,
 R. H.; Verstraeten, T.
 Soissons (Aisne).—Breuil, —.
Solanum.—Andersson, J. G.
 Solar energy & ice.—Goodchild, J. G.
Solarium.—Harris, G. D.; Jukes-
 Browne, A. J., &c.; Wolleimann, A.
Solen.—Sokolov, N.
Solenopleura.—Hague, A., &c.; Toll,
 Baron E. von.
 Somaliland (E. Africa).—Gennes, A. de,
 &c.; Gregory, J. W.; Kœttlitz, R.
 Somerset.—Jukes-Browne, A. J.; Stock,
 T.
 Somme R. (France).—Gosselet, J.
 Sondalo (Val Tellina).—Brugnatelli, L.
Sonninia.—Burckhardt, C.; Stuebin,
 K.
 Sonora (Mexico).—Dumble, E. T.;
 Ochsenius, C.
 Sorbonne. *See* Museums, Paris.
 Sorrel, Mt. (Leicester).—Watts, W.
 W.
Sosiolytes.—Yakovlev, N.
 Sósmező (Hungary).—Boeckh, J.
 South Australia. *See* Australia (S.).
 SOWERBY'S types.—Crick, G. C.
 Spa (Liège).—Dewalque, G.
 Spain.—Bentabol y Ureta, H.; Castro,
 M. F. de, &c.; Ferreira da Silva, A. J.,
 &c.; Llorente, T.; Puig y Larraz, G.;
 Schlumberger, C. *See also* Catalonia,
 &c.
 Spalding Moor (Yorks).—Sheppard, T.,
 &c.
Spaniodon.—Sokolov, N.
Sparganium.—Andersson, J. G.
 Sparnacian, Belgian.—Leriche, M.
Sparsicaeva.—Gregory, J. W.
Spatangus.—Hesse, E.
 Specimens, U.S. Geological Survey edu-
 cational series.—Diller, J. S.
 Speeton (Yorks).—Sheppard, T., &c.
 Spezia, Gulf of (Italy).—Capellini, G.;
 Guidoni, G.; Salle, E.
 Sphærite.—Gaubert, P.
Sphærium.—Rovert, G.
Sphæroceras.—Burckhardt, C.
 Sphærosiderite.—Beck, R.
 Sphene.—Lacroix, A.
Sphenodiscus.—Cragin, F. W.
Sphenodon.—Osborn, H. F.
Sphenolepidium.—Ward, L. F., &c.
Spizophyllum.—Scott, D. H.; Taff, J.
 A.; White, D.; Zeiller, R.
Sphenopteris.—Abbado, M.; Nathorst,
 A. G.; Scott, D. H.; Seward, A. C.;
 Taff, J. A.; Ward, L. F., &c.; White,
 D.; Zeiller, R.
Sphenotus.—Grabau, A. W.
 Spherulites.—Hague, A. &c.; Patton,
 H. B.
 Spinel.—Gruenling, F.; Melczer, G.
Spinigera.—Loriol, P. de.
Spirifer.—Beushausen, L.; Diener, E.;
 Enderle, J.; Grabau, A. W.; Hague,
 A., &c.; Kayser, E.; Lotz, H.; Row-
 ley, R. R.; Scupin, H.
Spiriferina.—Bittner, A.; Bøse, E., &c.;
 Burckhardt, C.; Diener, C.; Enderle,
 J.; Hague, A., &c.; Tornquist, A.
Spirigera.—Bittner, A.; Tommasi, C.
Spirigerella.—Enderle, J.
Spirillina.—Chapman, F.
Spirograptus.—Guerich, G.
Spiropora.—Gregory, J. W.
Spirorbis.—Grabau, A. W.
 Spiti (Himalayas).—Diener, C.; Hayden,
 H. H.; Krafft, A. von.
 Spitsbergen.—Bruce, W. S.; Fox-
 Strangways, C.; Geer, G. de; Knipo-
 vich, N.; Woodward, A. S.
 Spodiophyllite.—Toll, Baron E. von.
Spondylus.—Rovert, G.
Spongelites.—Rothpletz, A.
 Sponges, Cambrian.—Toll, Baron E. von.
 —, Carboniferous.—Hague, A., &c.
 —, Cretaceous.—Jukes-Browne, A. J.,
 &c.
 —, Devonian.—Schlueter, C.
 —, Jurassic.—Rothpletz, A.
 —, Quaternary.—Traxler, L.
 —, Tertiary.—Delheid, E.; Hinde, G.
 J.
Spongotropis.—Holmes, W. M.
Sporadoceas.—Guerich, G.
Sporangites.—Ami, H. M.
 Sprendlingen (Hesse).—Wittich, E.
 Spring Valley (Ill.).—Ede, J. A.
 Springs, Hungarian intermittent.—
 Siegmeth, C.
 —, Neckar Valley.—Dittrich, M.
 Squirrel, Quaternary.—Raeymaekers,
 D.
Stachys.—Andersson, J. G.
 Stade (Hanover).—Schroeder, H.
 Staffelde (Pomerania).—Schuelte, L.
 Staffordshire.—Bonney, T. G.; Geikie,
 Sir A.; Gibson, W.; Ward, J.;
 Weed, C. B.
 Stalagmites.—Emerson, B. K.
 Stassfurt (Prussia).—Van't Hoff, J.
 H., &c.
 Staten I. (N. Y.).—Hollick, A.
Stauralastrum.—Holmes, W. M.
Stauroidictya & *Staurosphera*.—Vinassa
 de Regny, P. E.
 Staurolite.—Weinschenk, E.
 Stavelot (Liège).—Lohest, M., &c.

- Steinheim (Württ.).—Fraas, E.
Steinmannites.—Mojsisovics, E. von.
 Steinort (E. Prussia).—Gagel, C.; Klautzsch, A.
Stenofiber.—Hofmann, A.
Stenoeosaurus.—Lydekker, R.
Stenopora.—Ugolini, P. R.
Stenopora.—Rogers, A. F.
Stenosmia.—Søhle, U.
 Stenuletye (Hungary).—Nopcsa, F., jun.
Stephanocania.—Gregory, J. W.
Stephanophyllia & *Stephanotrochus*.—Dennant, J.
 Steppe-fauna, Tübingen.—Koken, E.
 Steppes, Russia.—Bogoslovski, N.
 —, Morocco.—Fischer, T.
Stereornithes.—Mercerat, A.
Stibactraea.—Gregory, J. W.
Stichocorys & *Stichocapsa*.—Vinassa de Regny, P. E.
Stictopora.—Grabau, A. W.
Stigmara.—Abbado, M.; Scott, D. H.
 Stilbite.—Manasse, E.; Ongaro, G.; Spurr, J. E.
 Stipite.—Grand' Eury, F. C.
 Stirling (Scotland).—Anon. 60.
 Stockhorn (Bernese Alps).—Hug, O.
 Stockton (Warwick).—Lakin, M. H., &c.
 Stokesite.—Hutchinson, A.
 Stopmünde (Pomerania).—Keilhack, K.
 Stone curtain, Roxby.—Preston, H.
 Stone-implements. *See* Implements.
 Stora, Lake (Sweden).—Svenonius, F.
 Stour R. (I. of Wight).—Warren, S. H.
 Straits of Dover, origin of.—Gosselet, J.
 Stramberg-clay.—Remeš, M.
 —, limestone.—Chapman, F.
Straparollus.—Bornhardt, W., &c.; Grabau, A. W.; Hague, A., &c.; Yakovlev, N.
 Strassburg (Alsace).—Gerland, G.; Jæhnike, A.
 Strata, homotaxy of.—Sollas, W. J.
 Stratford Museum (Essex).—Dalton, W. H.
 Stratification, glacier.—Reid, H. F.
 Stratigraphical classification.—Mourlon, M., &c.; Renevier, E. *See also* Rocks, &c.
 Stream-robbing.—Lane, A. C.
 Streator (Ill.).—Dinsmore, A.
Strebotrypa.—Grabau, A. W.; Rogers, A. F.
Strepsodus.—Hay, O. P.
Streptelasma.—Grabau, A. W.
Streptorhynchus.—Enderle, J.; Schellwien, E.
 Striae, pseudo-glacial.—Huene, F. von.
Stribalocystis.—Rowley, R. R.
Strobilus.—Miller, K.
 Stromboli (Lipari Is.).—Stefani, C. de.
Strombus.—Behm, J.; Newton, R. B.; Roverto, G.
Strophalosia.—Diener, C.; Grabau, A. W.
Stropheodonta.—Grabau, A. W.
 Strood (Kent).—Dibley, G. E.
Strophomena.—Diener, C.; Schellwien, E.
 Studland (Dorset).—Hudleston, W. H., &c.
 Sturgeon R. (Mich.).—Clements, J. M., &c.
Sturiella.—Scott, D. H.
 Stürlack (E. Prussia).—Kaunhowen, F.
Stylaræa.—Lambe, L. M.
Stylina.—Gregory, J. W.
Styliola & *Styliolina*.—Grabau, A. W.
Stylodictya.—Vinassa de Regny, P. E.
Stylonurus.—Beecher, C. E.; Laurie, M.
Stylosphora & *Stylosimilia*.—Gregory, J. W.
Stylosphaera.—Holmes, W. M.
Stylostaurus.—Vinassa de Regny, P. E.
 Styria (Austria).—Bauer, K.; Hørnes, R.; Holler, A.; Ryba, F.; Vacek, M.; Weinschenk, E.
 Sub-Carboniferous, Missouri.—Rowley, R. R.
 Sub-oceanic river-valleys.—Hull, E.
 Sudan (Egypt).—Kœttlitz, R.
 Suffolk.—Dalton, W. H.; Harmer, F. W.
 Suidæ.—Stehlin, H. G.
 Sulcas (Sardinia).—Riva, C.
Sulcoactæon.—Loriol, P. de.
Sulcocava.—Gregory, J. W.
 Sulitälma (Sweden).—Holmquist, P. J.; Sjögren, H.
 Sulvanite.—Goyder, G. A.
 Sulza (Weimar).—Schuetze, E.
 Sumatra (D.E.I.).—Carthaus, E.; Hagen, B.
 Sundal (Norway).—Barrett, R. L.
 Superior, Lake (N. Am.).—Adams, F. D.; Bell, R.; Clements, J. M.; Winchell, N. H., &c.; Woodbridge, D. E.
Surcula.—Cossmann, M.; Tate, R.
 Surface, form of.—Blanford, W. T.
 Surrey.—Anon. 64; Coomara-Swamy, A. K.; Dibley, G. E.; Holmes, W. M.; Jukes-Browne, A. J.; Martin, E. A.; Monckton, H. W.; Robarts, N. F.; Stebbing, W. P. D.; Whitaker, W.
 Surveying & geological surveys. *See* Geological.
Sus.—Stehlin, H. G.
 Susa R. (Piedmont).—Boeris, G.
 Sussex.—Geikie, Sir A.; Lamplugh, G. W.; Mill, H. R.; Rowe, A. W.; Sherborn, C. D.
 Sutherland.—Anon. 46; Teall, J. J. H.
 Sutro Tunnel (Nev.).—Lakes, A.
 Svanbergite.—Prior, G. T.
 Svealand (Sweden).—Hollander, A.; Sjögren, H.
 Swabia. *See* Bavaria & Württemberg.
 Swabian Alps.—Gugenhan, —.

- Swadlincote (Derby).—Fox-Strangways, C.
- Swaziland (S. Africa).—Lyburn, E. St. J.
- Sweden.—Geer, G. de; Hennig, A.; Hægbon, A. G.; Steenstrup, K. J. V.; Vogt, J. H. L.
- See also Archæan, Norrbotten, &c.
- Swedish Arctic Expedition, 1898.—Woodward, A. S.
- E. Greenland Expedition.—Nathorst, A. G.
- Switzerland.—Æppli, A.; Baltzer, A.; Davis, W. M.; Dingelstedt, V.; Heim, A.; Letsch, E.; Renevier, E.; Richter, E.; Rothpletz, A.; Schardt, H., &c.; Tobler, A. See also Alps, Glaciers, &c.
- Sydney (N.S.W.).—Rae, J. L. C., &c.
- Syenite.—Angelis d'Ossat, G. de, &c.; Lacroix, A.; Rosenbusch, H.; Teall, J. J. H.; Wright, F. E.
- See also Igneous rocks.
- Sylt I. (Schleswig-Holstein).—Splieth, W.; Stolley, E.
- Sylvania-limestone.—Rollier, L.
- Sylvanite.—Palache, C.
- Synapta.—Spandel, E.
- Synastræa.—Söhle, U.
- Syndesmya.—Rovert, G.; Sokolov, N.
- Syntegmodus.—Loomis, F. B.
- Syracuse (Sicily).—Coppa, A.
- Syria, CONRAD's type-fossils.—Beecher, C. E.
- , Cretaceous.—Bæhm, J.
- , volcanoes.—Stuebel, A.
- Syringopora.—Hague, A., &c.; Lambe, L. M.
- Syringothyris.—Diener, C.; Hague, A., &c.
- Szechenyite.—Gaubert, P.
- Szekely (Hungary).—Palfy, M.
- Szovata (Hungary).—Roth, J.
- Table Mountain (Colo.).—Blake, W. P.; Clarke, F. W., &c.
- Taniophyllum.—White, D.
- Taniopora.—Grabau, A. W.
- Taniopteris.—Abbado, M.; White, D.
- Tagus R. (Portugal).—Choffat, P.
- Tamiliolite.—Gaubert, P.
- Talc.—Weinschenk, E.
- Taliabo I. (D.E.I.).—Bæhm, G.
- Taltal (Chili).—Darapski, L.; Loram, S. H.
- Taltalite.—Darapski, L.
- Talus-deposits.—Kœnen, A. von.
- Tancarville (Normandy).—Fortin, R.
- Tancredia.—Hague, A., &c.
- Tanganyika, Lake (Equatorial Africa).—Pantz, —.
- Tangier (Morocco).—Fischer, T.
- Tapes.—Rovert, G.; Sokolov, N.
- Tarcoola (S. Austr.).—Brown, H. Y. L.
- Tarn & Tarn-et-Garonne (France).—Caraven-Cachin, A.
- Tarns, Snowdon.—Dakyns, J. R.
- Tasmania.—Anon. 46; Etheridge, R., jun.; Haber, E.; Howitt, A. W.; Johnston, R. M.; Klockmann, F.; McLeod, W. H.; Muir, J. J.; Nicholls, H. W.; Sandeman, J. J.; Stephens, T.; Twelvetrees, W. H., &c.
- Taunus (Hesse).—Reinach, Baron von.
- Tauris (Russia).—Sokolov, N.
- Tarites.—Hague, A., &c.; Nathorst, A. G.
- Taxocrinus.—Grabau, A. W.
- Tay R. (Perth).—Coates, H.; Macnair, P.
- Teeth, mammalian.—Cocchi, I.; Ghigi, A.
- Tegern, Lake (Bavaria).—Inkeller, H.
- Teignmouth (Devon).—Woodward, H. B., &c.
- Tellina.—Bauer, K.; Bœckh, H.; Harris, G. D.
- Tellina Valley (Lombardy).—Brugnattelli, L.
- Tellinopsis.—Grabau, A. W.
- Telluride, Colorado.—Cross, W.; Lakes, A.; Palache, C.; Pearce, R.
- , nickel.—Dieseldorff, A.; Higgin, A. J.
- City (Colo.).—Wilson, A.
- Temiscamingue Lake (Quebec).—Ami, H. M.; Barlow, A. E.
- Temisconata Lake (Quebec).—Gregory, H. E.
- Temnocheilus.—Yakovlev, N.
- Temnocyon.—Wortman, J. L., &c.
- Temperature, Sydney rock.—Rae, J. L. C., &c.
- Tenda Tunnel (Piedmont).—Baldacci, L., &c.
- Tennessee (U.S.A.).—Hayes, C. W.; Walcott, C. D., &c.
- Tennysonia.—Ortmann, A. E.
- Tentaculites.—Grabau, A. W.
- Teosyringum.—Vinassa de Regny, P. E.
- Tephrite.—Lacroix, A.
- Teplitz (Bohemia).—Suess, F. E.
- Teramo (Abruzzi).—Bonarelli, G.
- Terebra.—Cossmann, M.; Newton, R. B.; Rovert, G.
- Terebratulina.—Bittner, A.; Bøse, E., &c.; Dautzenberg, P., &c.; Harris, G. D.; Herrick, C. L.; Jukes-Browne, A. J., &c.; Lorient, P. de; Remeš, M.; Rowley, R. R.; Upton, C.; Vincent, E.; Whiteaves, J. F.
- Terebratulidæ.—Tate, R.
- Terebratulina.—Rowe, A. W.
- Termatospira.—Taff, J. A.
- Terrace-abrasion.—Fischer, T.
- Terraces, Connecticut & Thames Rivers.—Gulliver, F. R.
- , Isser.—Lamothe, L. J. B., &c.
- , sub-oceanic.—Hull, E.
- , Thames Valley.—Hinton, M. A. C.
- , Tübingen high.—Koken, E.
- Tertiary, Abruzzi.—Bonarelli, G.
- , Algeria.—Pallary, P.

- Tertiary, Alps.—Koken, E.
 —, America (N.).—Smith, J. H.
 —, Apennines.—Oppenheim, P.; Sacco, F.
 —, Australian.—Clark, E. V.; Den-
 nant, J.; Hinde, G. J.; Tate, R.
 —, Belgium.—Cornet, J.; Delheid, E.;
 Dautzenberg, P., &c.; Dewalque, G.;
 Leriche, M.; Lohest, M., &c.; Malaise,
 C.; Van Ertborn, Baron O.; Velge,
 G.; Vincent, E.
 —, bone, fluorspar in.—Bemmelen, J.
 M. van, &c.
 —, Borneo.—Krause, P. G.
 —, Brazil.—Ameghino, F.; Branner,
 J. C.
 —, Calabria.—Stefano, G. de; Ugo-
 lini, P. R.
 —, California.—Turner, H. W.
 —, Calvados.—Skrodzki, J.
 —, Carpathians.—Uhlig, V.
 —, classification.—Matthew, W. D.
 —, Clermont basalts.—Giraud, J.
 —, Croatia.—Gorjanović-Kramberger,
 K.
 —, Denmark.—Stolley, E.
 —, Egypt.—Andrews, C. W.; Blanc-
 kenhorn, M.; Chapman, F.; Depéret,
 C., &c.; Fourtau, R.; Mayer-Eymar, C.
 —, Emilia.—Levi, T.
 —, Essex.—Harmer, F. W.
 —, France.—Depéret, C.; Dollfus, G.
 F., &c.; Douvillé, H.; Fliche, P.;
 Giraud, J.; Gosselet, J.; Malaquin,
 A.; Oppenheim, P.; Trévenin, A.
 —, Frankfurt-a.-M.—Kinkel, F.
 —, Hesse.—Linstow, O. von; Spandel,
 E.
 —, Hungary.—Blanckenhorn, M.;
 Bæckh, H.; Koch, A.; Kocsis, J.
 Lœrenthey, —.
 —, Istria.—Oppenheim, P.
 —, Italy.—Bosco, C.; Issel, A.;
 Mariani, M.; Neviani, A.; Oppen-
 heim, P.; Rovert, G.; Ugolini, R.
 —, Java.—Martin, K.; Schlumberger,
 C.
 —, Langhiano.—Peola, P.
 —, Mainz.—Reichenau, W. von.
 —, Moravia.—Hofmann, A.
 —, Museum of Practical Geology
 types.—Allen, H. A.
 —, New Zealand.—Murdoch, R.
 —, Patagonia.—Hatcher, J. B.; Ort-
 mann, A. E.; Scott, W. B.
 —, Persia.—Guenther, R. T., &c.
 —, Piedmont.—Capedero, G.; Sacco,
 F.; Schaffer, F.
 —, Rome, Prov. of.—Silvestri, A.;
 Stefano, G. di, &c.
 —, Rumania.—Simionescu, J.
 —, Russia.—Laskarev, V.; Sokolov, N.
 —, Schleswig-Holstein.—Stolley, E.
 —, Sicily.—Coppa, A.
 —, Spain.—Bofill, A.; Depéret, C.
 —, Styria.—Bauer, K.; Holler, A.
 Tertiary, Switzerland.—Buxtorf, A.;
 Letsch, E.; Renevier, E., &c.
 —, Tunis.—Pervinrière, L.
 —, Tyrol.—Oppenheim, P.
 —, Umbria.—Angelis d'Ossat, G. de;
 Bonarelli, G.; Morena, T.; Ugolini,
 R.; Verri, A., &c.
 —, United States.—Davis, W. M.;
 Eastman, C. R.; Harris, G. D.;
 Matthew, W. D.; Packard, A. S.;
 Smith, J. H.
 —, Vienna Basin.—Karrer, F.
 —, Wight (I. of).—Giraud, J.
 —, Württemberg.—Fraas, E.; Miller,
 K.; Rollier, L.
Tervia.—Gregory, J. W.
Teschenites.—Lacroix, A.
Testudo.—Wieland, G. R.
 Teton Forest Reserve (Wy.).—Brandegge,
 T. S.
Tetradium.—Lambe, L. M.; Lindström,
 G.
 Texas (Queensland).—Stokes, H. G.
 Texas (U.S.A.).—Hill, R. T., &c.; Wal-
 cott, C. D., &c.
Textularia.—Barnes, J., &c.—Chapman,
 F.; Reade, T. M.
 Thal (Hesse).—Klemm, G.
Thalassochelys.—Wieland, G. R.
 Thalassology.—Jervis, W. P.
 Thalenite.—Gaubert, P.
 Thames R. (Conn.).—Gulliver, F. P.
 Thames Valley.—Hinton, M. A. C.;
 Rutot, A.
Thamnastræa.—Bornhardt, W., &c.;
 Gregory, J. W.; Söhle, U.
Thamniscus.—Rogers, A. F.
 Thaya R. (Austria).—Abel, A.
Thecocyathus.—Lindström, G.
Thecosmilæ.—Tommasi, C.; Tornquist,
 A.
Thecosphæra.—Vinassa de Regny, P.
 E.
Theodiscus.—Holmes, W. M.
Thamnaræa.—Gregory, J. W.
Thamnastræa.—Angelis d'Ossat, G. de;
 Söhle, U.
Thelodus.—Traquair, R. H.
 Thermal waters, Bohemia.—Suess, F.
 E.
 —, Hesse.—Jennings, A. V.
 —, origin of.—Lamarre-Olivier,
 A.
 —, Salzburg.—Ludwig, E., &c.
Thetidites.—Mojsisovics, E. von.
Thetis.—Harris, G. D.
 Thirtymile Point (N.Y.).—Gilbert, G.
 K.
Thisbites.—Mojsisovics, E. von.
 THOMSON, J.—Jones, T. R.
 Thompson R. (British Columbia).—
 Smith, H. I.
 Thomsonite.—Kunz, G. F.
Thracia.—Greppin, E.; Hague, A., &c.;
 Lorient, P. de; Rovert, G.; Schaffer,
 F.; Wollemann, A.

- Thrapston (Northants).—Blake, J. F.
 Threlkeld Mine (Cumberland).—Marr, J. E.
 Thrust-joines, plant-like markings &.—Blackenhorst, M.
Thryptodus.—Loomis, F. B.
 Thunder Bay (Ont.).—McInnes, W.
 Thurgau (Switzerland).—Gutzwiller, A.
 Thuringia (Germany).—Frantzen, W.; Klemm, G.; Möller, H.; Nehring, A.; Pabst, W.
Thyrsopteris.—Ward, L. F., &c.
 Tiber Valley, (Rome).—Clerici, E.; Silvestri, A.
 Tibet (Asia).—Hedin, S.; Strachey, Sir R.
Tibetites.—Mojsisovics, E. von.
 Ticino valley (Switzerland).—Davis, W. M.
 Ticknall (Derby).—Fox-Strangways, C.
 Tierra del Fuego fjords (S. Am.).—Nordenskjöld, O.
 Tifarouine (Algeria).—Gentil, L.
 Tilburstow (Surrey).—Whitaker, W.
Tilia.—Andersson, G.
 Tilton (Leicester).—Fox-Strangways, C., &c.
 Timor (D.E.I.).—Boehm, J.; Weber, M.
 Tin, distribution.—Beck, R.
 —, Mexico.—Halse, E.
 —, New South Wales.—Coghlan, T. A.; McLachlan, D. C.
 —, South Australia.—Brown, H. Y. L.
 —, Tasmania.—Fircks, W. von; Klockmann, F.; Sandeman, J. J.
 —, Western Australia.—Maitland, A. G.
Tinæogoceras.—Bonarelli, G.
 Tinguaita.—Prior, G. T.
 Tintagel (Cornwall).—Bowman, H. L.
 Tintic Mts. (Utah).—Tower, G. W., Jun.
 Titaniferous iron-ores, Adirondacks.—Kemp, J. F.
 —, basic eruptive rocks with.—Vogt, J. H. L.
 Titanite.—Boeris, G.; Fantappiè, L.; Jeremejev, P. von.
Titanocarcinus.—Segerberg, K. O.
Titanomys.—Major, C. I. F.
 Tithonian, Moravia.—Chapman, F. *See also* Jurassic.
Tmetoceras.—Burekhardt, C.
 Toarcian.—Bettoni, A.
Todites.—Seward, A. C.
 Tokyo (Japan).—Omori, F.; Sekiya, S., &c.
 Tolfá (Rome).—Franchi, S.
 'Toltry' limestone.—Simionescu, J.
 Tomnadashan (Perth).—Macnair, P.
 Tonalite.—Duparc, L., &c.
 Tong Colliery, Kaiping.—Webster, T.
 Tongking (Indo-China).—Leclère, A.
 Tongrian.—Issel, A.; Peola, P.; Roverto, G.
 Topaz.—Harker, G.; Kunz, G. F.
 Torehine (N.Z.).—Maclaren, J. M.
 Toronto (Canada).—Coleman, A. P.
 Torreon formation.—Matthew, W. D.
 Torrents.—Meunier, S.; Sprecher, F. W.
 Torsion-structure, Alpine.—Buchanan, J.
 Tortôises, Tertiary.—Delheid, E.
 —, Wealden.—Hooley, R. W.
 Törzburg (Transylvania).—Popovič-Hatzeg, V.
 Toulon (Var).—Bertrand, M., &c.
 Touraine (France).—Fallot, E., &c.; Grossouvre, A. de.
 Tourmaline.—Achiardi, G. d'; Heddle, M. F.; Kunz, G. F.; Patton, H. B.; Penfield, S. L.; Viola, C.; Worobiev, V. von.
 —schists.—Patton, H. B.
 Tournai (Hainault).—Rutot, A.
 Tours (Indre-et-Loire).—Canu, F.; Fallot, E., &c.; Grossouvre, A. de.
Toxaster.—Loriol, P. de.
Toxodon.—Roth, S.
Toxopneustes.—Ortmann, A. E.
Toxylon.—Hollick, A.
Trachyceras.—Mojsisovics, E. von.
Trachydomia.—Yakovlev, N.
Trachypleura.—Jäkel, O.
Trachypora.—Grabau, A. W.
 Trachyte, Rome.—Franchi, S.; Washington, H. S.
 —, Tasmania.—Twelvetrees, W. H., &c.
 Tracks, mud.—Andersson, J. G.; Packard, A. S.; Walcott, C. D.
Tragocerus.—Vacek, M.
Trajanella.—Popovič-Hatzeg, V.
Tramoria.—Reed, F. R. C.
 Transbaikal (Siberia).—Glasser, E.
 Transvaal.—Dunn, E. J.; Lyburn, E. St. J.; Molengraaff, G. A. F.
 Transylvania (Hungary).—Blackenhorst, M.; John, C. von; Koch, A.; Popovič-Hatzeg, V.; Schafarzki, F.; Schlosser, M.; Semper, M.
Trapa.—Andersson, J. G.; Hague, A., &c.; Kjellmark, K.; Olsson, P. H.
 Traù (Dalmatia).—Kerner, F. von.
 Travers, Val de (Neuchâtel).—Scharadt, H.
 TRAXLER, L.—Staub, M.
 Trebinje (Herzegovina).—Bittner, A.
Trematospira.—Grabau, A. W.
Trematotrochus.—Dennant, J.
 Tremolite.—Smith, G. F. H.
 Tremerichion (N. Wales).—Pollen, G. C. H.
 Trenton formation.—Ami, H. M.; Chamberlin, T. C.
Tretocalia.—Hinde, G. J.
Tretospira.—Yakovlev, N.
 Treviso (Lombardy).—Taramelli, T.
 Trias, Africa (S.).—Broom, R.; Seeley, H. G.
 —, Algeria.—Fabre, G.
 —, Austria.—Diener, C.; Fuchs, T.; Geyer, G.; Teller, F.; Tommasi, C.

- Trias, Baden.—Schalch, M.
 —, Bavaria.—Waagen, L.
 —, Brandenburg.—Jäkel, O.
 —, Bristol.—Wickes, W. H.
 —, Brunswick.—Philippi, E.
 —, China.—Koken, E.
 —, Connecticut.—Emerson, C. K.
 —, Himalayas.—Bittner, A.; Hayden, H. H.; Krafft, A. von; Mojsisovics, E. von.
 —, Hungary.—Bittner, A.; Høernes, H.
 —, Italy.—Mariani, E.; Tommasi, C.; Tornquist, A.; Viola, C.
 —, Malay Peninsula.—Newton, R. B.
 —, Midlands.—Bonney, T. G.; Wedd, C. B.
 —, Monmouthshire.—Strahan, A.
 —, nomenclature.—Zittel, K. A. von.
 —, Provence.—Répelin, J.
 —, Salt Range.—Nœtling, F.
 —, Shropshire.—Clarke, W. J.
 —, Siberia.—Bittner, A.
 —, Silesia.—Schrammen, A.
 —, Spain.—Bofill, A.
 —, Switzerland.—Bodmer-Beder, A.; Schmidt, C.
 —, Tyrol.—Broili, F.; Gordon, M. M. O.
 —, Virginia.—Shaler, N. S., &c.
 —, Württemberg.—Wulff, E. A.
 Tribuša (Goritz).—Kossmatt, F.
Tricycloseris.—Gregory, J. W.
Tridacna.—Newton, R. B.
Trigeria.—Grabau, A. W.
Trigonia.—Bornhardt, W., &c.; Burckhardt, C.; Greco, B.; Greppin, E.; Hague, A., &c.; Harris, G. D.; Jukes-Browne, A. J., &c.; Wolleermann, A.
Trigonoactura.—Holmes, W. M.; Vinassa de Regny, P. E.
Trigonocarpon.—Wild, G.
Trigonocyelia.—Holmes, W. M.
Trigonodus.—Bittner, A.
Trigonodus-dolomite.—Fraas, E.
Triletes.—White, D.
 Trilobita.—Beecher, C. E.
 Trilobites, Cambrian.—Burr, H. T.; Hague, A., &c.; Matthew, G. F.; Redlich, K.; Reed, F. R. C.; Toll, Baron E. von.
 —, Carboniferous.—Hague, A., &c.; Scupin, H.
 —, Devonian.—Grabau, A. W.; Schlueter, C.
 —, Silurian.—Ami, H. M.; Bergeron, J.; Pompeckj, J. F.; Suess, E.; Thomas, H. H.; Reed, F. R. C.; Taff, J. A.
 —, tracks.—Packard, A. S.
Trilonche.—Holmes, W. M.
 Trinidad (W.I.).—Guppy, R. J. L.
 Trinidad I., Little (S. Atlantic).—Prior, G. T.
Trinuclaus.—Suess, E.
 Triphylia (Greece).—Mitropoulos, C.
 Triphylite.—Penfield, S. L.
 Tripoli powder, Chile.—Machado, M. R.
 Tripolis (Greece).—Mitropoulos, C.
Trisphæra.—Vinassa de Regny, P. E.
Tritonidea.—Harris, G. D.
Tritonium.—Ortmann, A. E.
Triva.—Oppenheim, P.
Trochactæon.—Bœhm, J.
Trochammina.—Barnes, J., &c.; Reade, T. M.
Trocharæa.—Gregory, J. W.
Trochodiadema.—Loriol, P. de.
Trochodiscus.—Holmes, W. M.
Trochonema.—Lotz, H.
Trochoplegma.—Gregory, J. W.
Trochoscilia.—Gregory, J. W.; Oppenheim, P.; Sæhle, U.
Trochotoma.—Cossmann, M.
Trochus.—Burckhardt, C.; Loriol, P. de; Sæhle, U.; Toula, F.; Wolleermann, A.
Trogonthierium.—Bosco, C.
Troostocrinus.—Rowley, R. R.
Trophon.—Murdoch, R.
Tropidoceras.—Fucini, A.
Tropidoleptus.—Grabau, A. W.
Tropites.—Mojsisovics, E. von.
 Trujillo (Peru).—Raimondi, A.
Truncatulina.—Clapman, F.
 Trutenau (W. Prussia).—Wolff, W.
 Tse Chou (China).—Drake, N. F.
Tuberculopleura.—Yakovlev, N.
 Tübingen (Württ.).—Koken, E.
 Tüchel (W. Prussia).—Maas, G.
 Tuedian.—Gunn, W.
 Tuffs, Antrim.—Elsden, J. V., &c.
 —, Fiji edible.—Corney, B. G., &c.
 —, New Zealand.—Rutley, F.
 Tunbridge Wells (Kent).—Seeley, H. G.
 Tunis (North Africa).—Flick, —; Perquinquière, L.
 Tunnel, Straits of Dover.—Dawkins, W. B.
 Tura R. (Russia).—Purinton, C. W.
Turbo.—Loriol, P. de; Newton, R. B.; Oppenheim, P.; Wolleermann, A.
Turbonellina.—Yakovlev, N.
 Turgite.—Samoilov, J.
 Turin (Piedmont).—Peola, P.; Stella, A.
 Turkestan (Asia).—Bœhm, G.; Montessus de Ballore, F. de.
 Turkey.—Cvijic, J.
 Turonian.—Choffat, P.; Grossouvre, A. de.
 Turquoise.—Kunz, G. F.; Penfield, S. L.
Turritiles.—Whiteaves, J. F.
Turritella.—Bœckh, H.; Burckhardt, C.; Donald, J.; Harris, G. D.; Loriol, P. de; Newton, R. B.; Roverso, G.
 Turtles, Cretaceous.—Parmenter, C. S.
 —, evolution of.—Wieland, G. R.
 Tuscany (Italy).—Achiardi, G. d'; Bosco, C.; Manasse, E.; Neviani, A.; Oppenheim, P.; Salle, E.; Ugolini, R.; Vinassa de Regny, P. E.; Zanna, P. del.

- TILDEN-WRIGHT, C.—Anon. 30.
 Tyldesley (Lancs).—Peace, G.
Tylosaurus.—Osborn, H. F.
 Ty Newydd caves (N. Wales).—Pollen, G. C. H.
 Types, BUCKMAN Collection.—Buckman, S. S.
 —, Museum of Practical Geology, Tertiary.—Allen, H. A.
 —, registration of.—Blake, J. F.
 —, WHITFIELD.—Whitfield, R. P.
Typhis.—Oppenheim, P.
 Typical fossils.—Woods, H.
 Tyrol (Austria).—Böhm, A.; Böse, E.; Broili, F.; Geyer, G.; Gordon, M. M. O.; Oppenheim, P.; Rothpletz, A., &c.; Salomon, W.; Schubert, R. J.; Trener, G. B.; Zittel, K. A. von.
 Tyrone (Ireland).—Cole, G. A. J.
- Uehrde (Brunswick).—Philippi, E.
 Uggowitz breccia.—Geyer, G.
 Uinta formation.—Matthew, W. D.
Uintacrinus.—Beecher, C. E.
 Ujvidek (Hungary).—Adda, K.
 Uliveto (Tuscany).—Vinassa de Regny, P. E.
 Ullswater (Westmorland).—Oldham, R. D.
 Ulmannite.—Hintze, C.
Ulmaria.—Andersson, G.
Ulmiphyllum.—Ward, L. F., &c.
Ulmus.—Andersson, J. G.; Hague, A., &c.; Hollick, A.
 ULRICH, G. H. F. *See* Anon. 31.
Umbonium.—Bauer, K.; Lotz, H.
 Umbria (Italy).—Angelis d'Ossat, G. de; Bellini, R.; Bonarelli, G.; Lotti, B.; Morena, T.; Ugolini, R.; Verri, A., &c.
 Ume R. (Jemtland).—Gavelin, A.
 Underground temperature. *See* Temperature.
Undularia.—Répin, J.; Tornquist, A.
Unio.—Angelis d'Ossat, G. de, &c.
 Union formation.—Ami, H. M.
 United Kingdom. *See* Great Britain, &c.
 United States, Department of Agriculture.—Whitney, M.
 —, Geological Survey.—Walcott, C. D., &c.
 —, 'geologic atlas.'—Walcott, C. D., &c.
 —, new gold-districts.—Chance, H. M.
 —, mica-deposits.—Holmes, J. A.
 —, mineral resources.—Day, D. T.
 —, natural gas & petroleum.—Oliphant, F. H.
 —, precious stones.—Kunz, G. F.; Maguire, —.
 —, Western Eocene.—Smith, J. H.
 —, *See also* Iron, Museums, Petroleum, &c.
- Unitrypa*.—Grabau, A. W.
 Unterwalden & Uri (Switzerland).—Tobler, A.
 Uphill (Somerset).—Bolton, H.
 Urals (Russia).—Gulliver, F. P.; Kunz, G. F.; Louis, D. A.; Purington, C. W.; Samoilov, J.; Stuckenberg, A.
 Uraninite.—Pearce, R.
Urenchelys.—Woodward, A. S.
 Uriconian, Malverns.—Groom, T. T.
 Urmi, Lake (N.W. Persia).—Guenther, R. T., &c.
Urnatopteris.—Scott, D. H.; Zeiller, R.
Urohelminthoides.—Sacco, F.
Uromitra.—Rovert, G.
Urosalpinx.—Ortmann, A. E.
Urotheca.—Matthew, G. F.
 'Ursafflora.'—Nathorst, A. G.
Ursavus.—Schlosser, M.
Ursus.—Niezabitowski, E. L.; Schlosser, M.
 Ussuri district (Siberia).—Bittner, A.
 Utah (U.S.A.).—Gardner, F. D.; Hills, R. C.; Logan, W. N.; Maguire, —; Means, T. H.; Spurr, J. E.; Talmage, J. E.; Tower, G. W., jun.; Whitney, M.
 Utica Mine (Cal.).—Collier, J. H.
Uvigerina.—Fornasini, C.
- Vaal R. (S. Africa).—Day, P. R.
Vaginulina.—Chapman, F.
 Valais (Switzerland).—Schardt, H.; Schmidt, C.
 Valangian.—Baumberger, E.
 Valdez glaciers, Alaska.—Abercrombie, W. R.
 Valenca (N. Mex.).—Herrick, C. L.
 Valentinite.—Millosevich, F.
 Valentinois massif (Dauphiné).—Lory, P., &c.
 Valleys, buried.—Stather, J. W.
 —, erosion.—Fischer, T.; Salomon, W.
 —, origin of.—Marr, J. E.
 —, river.—Brittlebank, C. C.; Gugenhan, —.
 —, sub-oceanic.—Hull, E.; Smith, W. S. T.
 Valerio, Mt. (Tuscany).—Manasse, E.
 Valsassina (Lombardy).—Porro, C.
Valvata.—Cossmann, M.
Valvulina.—Barnes, J., &c.; Chapman, F.
 Vanadinite.—Goldschmidt, V.; Hillebrand, W. F.
 Vanadium, eruptive rocks with.—Vogt, J. H. L.
 Vancouver (B.C.).—Brewer, W. M.
 Var (France).—Guéhard, A.; Lacroix, A.; Répin, J.
 Vares (Bosnia).—Katzer, F.
Variamussium.—Philippi, E.
Vasum.—Newton, R. B.
 Vaucluse (France).—Martin, D.
 Vaud (Switzerland).—Dingelstedt, V.

- Vegetation, gold-deposits &.—Lungwitz, E.
- Vein-minerals.—Nordenskjöld, Baron A. E.
- Veins.—Beck, R.; Brough, B. H.; Emmons, S. F.; Goodchild, J. G.; Irving, J. D.; Launay, L. de, &c.; Palmer, C. S., &c.; Rickard, T. A.; Schardt, H.; Shaler, N. S.
- Velardena (Mexico).—Payne, E. E.
- Velletri (Rome).—Sabatini, V.
- Veltheimia*.—Beyschlag, F., &c.
- Venerocolo, Mt. (Lombardy).—Porro, C.
- Venetia (Italy).—Bettoni, A.; Geyer, G.; Oppenheim, P.; Tornquist, A.; Velio, Z.
- Veniella*.—Harris, G. D.
- Ventoux, Mt. (Provence).—Kilian, W., &c.
- Venus*.—Bornhardt, W., &c.; Newton, R. B.; Rovert, G.; Sokolov, N.
- Vereeniging (Transvaal).—Dunn, E. J.
- Vermes, Tertiary.—Ortmann, A. E.
- Vermont (U.S.A.).—Dale, T. N.
- Verona (N. Italy).—Nicolis, E.
- Verrucano, Tuscany.—Vinassa de Regny, P. E.
- Vertain (Nord).—Malaquin, A.
- Vetebraria*.—Bornhardt, W., &c.
- Vesuvius.—Anderson, T.; Matteucci, R. V.
- Viburnites*.—Ward, L. F., &c.
- Viburnum*.—Hague, A., &c.
- Vicentino (Italy).—Taramelli, T.; Tornquist, A.
- Victoria (Austr.).—Hinde, G. J.; Howitt, A. W.
- Victoria Land (Antarctic).—Borchgrevink, C. E.
- Victoria Nyanza (Equatorial Africa).—George, G. H.
- Vidalina*.—Schlumberger, C.
- Vienenburg (Harz).—Ebert, T.
- Vienna (Lr. Austria).—Bittner, A.
- (—) basin.—Karrer, F.; Vacek, M.
- (—), Imperial Geological Institute.—Anon. 39; Stache, G.; Tietze, E., &c.
- Vietz (Brandenburg).—Korn, J.
- Villacidro (Sardinia).—Lovisato, D.
- Villefranche (Alpes-Maritimes).—Riaz, A. de.
- Villeneuve-lès-Avignon (Gard).—Raymond, P.
- Villers-sur-Mer (Normandy).—Douvillé, H.
- Villiers-le-Temple (Liège).—Destinez, P.
- VINCENT, G.—Dautzenberg, P.
- Vine-shoot, fossil.—Rabell, —.
- Viola*.—Andersson, J. G.
- Vireux Mt. (Ardennes).—Anon. 66.
- Virginia (U.S.A.).—Catlett, C.; Chance, H. M.; Nitze, H. B. C.; Shaler, N. S., &c.; Walcott, C. D., &c.
- Virginia, W. (U.S.A.).—Prosser, C. S.; Shaler, N. S., &c.; Walcott, C. D., &c.; White, I. C.
- Viterbo (Rome).—Clerici, E.; Stefano, G. di, &c.; Zambonini, F.
- Vitim R. (Siberia).—Glasser, E.
- Vitrolles (Provence).—Depéret, C.
- Vitulina*.—Grabau, A. W.
- Viverridæ.—Wortman, J. L., &c.
- Vivipara*.—Angelis d'Ossat, G. de, &c.
- Viviparus*.—Cossmann, M.
- Vizagapatam (Madras).—Walker, T. L.
- Vizanovec (Croatia).—Gorjanović-Kramberger, K.
- Vletavicrinus*.—Bather, F. A.
- Vogesite.—Dathe, E.
- Vola*.—Bornhardt, W., &c.
- Volcanic areas, Somaliland.—Kœttlitz, R.
- carbonic acid.—Stevenson, J.
- eruptions.—Anderson, T.; Platania, G. See also Vesuvius, &c.
- glass, gold in.—Jacquet, J. B.
- islands.—Grosser, P.
- inclusions.—Lacroix, A.
- minerals.—Fantappiè, L.
- rocks. See Igneous rocks.
- spherulites.—Hague, A., &c.
- Volcanoes, Africa (N.E.).—Smith, A. D.
- , Andes.—Brant, G.
- , Auvergne.—Boule, M., &c.; Glangaud, P.; Michel-Lévy, A.
- , earthquakes &.—Bertrand, M.
- , Ecuador.—Stuebel, A.
- , Guatemala & Nicaragua, & Salvador.—Sapper, C.
- , Hungarian Tertiary.—Koch, A.
- , Italy (central).—Sabatini, V.
- , Japan.—Kotô, B.
- , Lipari Is.—Angelis d'Ossat, G. de; Stefani, C. de.
- , Mexico.—Ordóñez, E.
- , origin of.—Boese, E.
- , Pacific.—Phillips, C.
- , Philippine Is.—Anon. 35.
- , physics of.—Arrhenius, S.; Lamarre-Olivier, A.
- , scenery &.—Marr, J. E.
- , Syria.—Stuebel, A.
- , Victoria (Austr.).—Howitt, A. W.
- , Yellowstone National Park.—Hague, A.
- Volhynia (Russia).—Laskarev, V.
- Voltsiopsis*.—Bornhardt, W., &c.
- Voluta*.—Loriol, P. de; Ortmann, A. E.
- Volutella*.—Rovert, G.
- Volutilithes*.—Rovert, G.; Tate, R.
- Vorarlberg (Austria).—Rothpletz, A.
- Vosges (France).—Barthélemy, F.; Bleicher, G., &c.; Lorié, G.; Van den Broeck, E.
- Vulcanism, glaciation &.—Harbæ, E. G.
- Vulcano (Lijari Is.).—Stefani, C. de.
- Vulcanological Survey, Japan.—Kotô, B.

- Vulpavus*.—Wortman, J. L., &c.
Vulsini (Tuscany).—Fantappiè, L.
Vusella.—Rovert, G.
- WAAGEN, W. H.—Anon. 29; Tietze, W.; Uhlig, V.
 Wabana (Newfoundland).—Nitze, H. B. C.
 Waddon (Surrey).—Martin, E. A.
 Waes, Pays de (Flanders).—Van Ertborn, Baron O.
 Walachia (Rumania).—Mrazec, L.
 Walcourt (Hainaut).—Simoens, G.
Waldheimia.—Böse, E., &c.; Burckhardt, C.; Greco, B.; Remes, M.; Simionescu, J.
 Walen-See (Switzerland).—Rothpletz, A.
 Wales.—Atkinson, J. B., &c.; Callaway, C.; Dakyns, J. R., &c.; Evans, T.; Elles, G. L.; Geikie, Sir A.; Lake, P.; Lapworth, H.; Lozé, E.; Martin, E. A.; Morton, G. H.; Read, T. M.; Strahan, A., &c.; Tiddeman, R. H.; Wood, E. M. R.
 Waltonian.—Harmer, F. W.
 Walzin (Namur).—Dorlodot, H. de.
 Wandle R. (Surrey).—Johnson, J. P.
 Wangánui (N.Z.).—Murdoch, R.
 Wanstead (Essex).—Hinton, M. A. C.
 Warburton R. (S. Austr.).—Zietz, A. H. C.
 Warminster (Wilts).—Jukes-Browne, A. J., &c.
 Wareham (Dorset).—Hudleston, W. H., &c.
 Warren (Queensland).—Dunstan, B.
 Warrior coal-basin (Ala.).—McCalley, H.
 Wartenberg (Pomerania).—Krusch, P.
 Warwickshire.—Bonney, T. G.
 Wasatch formation.—Matthew, W. D.
 Wash, glacial.—Elwen, T. L.
 Washington (U.S.A.).—Ayres, H. B.; Lakes, A.; Walcott, C. D.
 Washoe Mts. (Nev.).—Lakes, A.
 Water, Argentan.—Bigot, A.
 —, Belgium.—Lohest, M.
 —, cavern.—Rahir, E.
 —, clay in suspension.—Thoulet, J.
 —, Colorado.—Strong, W. C.
 —, England.—Jukes-Browne, A. J., &c.
 —, Essex.—Thresh, J. C.
 —, filtration, natural.—Verstraeten, T.
 —, France.—Anon. 67.
 —, Hoo (Hundred of).—Bird, C.
 —, Lincoln.—Griffith, C.
 —, Liverpool.—Parry, J.
 —, Lombardy.—Taramelli, T.
 —, Monmouthshire.—Strahan, A.
 —, Nassau.—Fresenius, H.
 —, New South Wales.—Mingaye, J. C. H.
 —, percolation in soils.—Boursault, H.; Kemna, A.; King, F. H.; Scott, R. H.; Verstraeten, T.
 Water, Piedmont.—Stella, A.
 —, Portugal.—Chofiat, P.
 —, pyrites altered by.—Evans, J. W.
 —, Rhenish Bavaria.—Reis, O. M.
 —, silicates &.—Sestini, F.
 —, Spain.—Bentabol y Ureta, H.
 —, subterranean.—Anon. 68.; Kendall, P. F.
 —, Surrey.—Anon. 64.
 —, underground.—King, F. H.; Slichter, C. S.; Stella, A.
 —, Westphalia.—Reis, O. M.
 —, Wismar.—Geinitz, E.
 —, Yorkshire.—Mortimer, J. R.; Slade, H. P.; Watts, W.
 —, zones.—Abbott, G.
 —. See also Mineral Waters, &c.
 Waterford (Ireland).—Reed, F. R. C.
 Water-pipe concretions.—Bleicher, G., &c.
 Watersheds, Swabian Alps.—Gugenhan, —.
 Watford (Herts).—Lones, T. E.
 Waves, sand.—Cornish, V.
 Weald.—Abbott, L.
 Wealden, Belgian.—Seward, A. C.
 —, England (S.W.).—Lamplugh, G. W.; Van den Broeck, E.
 —, Germany (N.).—Könen, A. von.
 —, Wight (Isle of).—Hooley, R. W.
 —. See also Cretaceous, &c.
 Weathering, Colorado.—Patton, H. B.
 —, Dakota.—Hovey, E. O.
 —, rock.—Hult, R.; Walther, J.
 —, sub-aqueous.—Fuller, M. L.
Weichselsia.—Seward, A. C.; Ward, L. F., &c.
 Weinböhl (Saxony).—Bergt, W.
 Weimar (Germany).—Schuetze, E.
Weinmannia.—Peola, P.
 Weisskirchen (Moravia).—Remes, M.
 Well-section, Madison.—Bushong, F. W.
 —, Regent's Park.—Sclater, P. L.
 Wells. See Artesian, Borings, &c.
 Wengen Beds, Tyrol.—Zittel, K. A. von.
 Wenlock Shales.—Elles, G. L.
 Werder (Brandenburg).—Kert, W.
 Werfen-Shales.—Fuchs, T.; Waagen, L.
 West Indies.—Bauer, M.; Hill, R. T.; Nitze, H. B. C.
 Western Australia. See Australia (W.).
 Westmorland.—Oldham, R. D.; Rutley, F.
 Westphalia (Germany).—Bayberger, F.; Denckmann, A., &c.; Forir, H.; Loretz, H.; Reis, O. M.
 Wetzelsdorf (Styria).—Holler, A.
 Weyer (N. Austria).—Bittner, A.
 Weymouth (Dorset).—Richardson, N. M.
 Whales, Tertiary.—Koch, A.
 Wherlite.—John, C. von.

- Whin Sill.—Gunn, W.
 Whinstone, Stirling.—Anon. 60.
 White River formation.—Matthews, W. D.
 —sands, New Mexico.—Herrick, C. L.
 —Sea (Arctic Russia).—Knipovich, N.
 WHITFIELD types.—Whitfield, R. P.
Whittleseya.—Ami, H. M.
 Whyteleafe (Surrey).—Dibley, G. E.
 Wickham, West (Kent).—Clinch, G.
 Wight (I. of).—Hooley, R. W.; Warren, S. H.
 Wildenbruch (Pomerania).—Michael, R.
 WILLIAMS memorial lectures.—Winchell, N. H.
Williamsonia.—Seward, A. C.; Ward, L. F., &c.
 Willyamite.—Hintze, C.
 Wiltshire.—Buckman, S. S.; Jukes-Browne, A. J., &c.
 Wimbledon (Surrey) & Winchfield (Hants).—Monckton, H. W.
 Wind-deposits. *See* Dunes, &c.
 —erosion.—Cornish, V.
 —River formation.—Matthews, W. D.
 Winds, climate &.—Harmer, F. W.
 Windworn stones.—Bather, F. A.; Papp, K.
 Wisconsin (U.S.A.).—Buckley, E. R.; Hubbard, G. D.; Munroe, C. E.; Thomas, K.
 Wismar (Mecklenburg).—Geinitz, E.
 Wissant (Pas-de-Calais).—Leriche, M.
 Withamite.—Heddle, M. F.
 Wolds, Yorkshire.—Sheppard, T., &c.
 Wolframite.—Bodenbender, G.; Gilpin, E., jun.
 Wollastonite.—Fantappiè, L.
 Wombeyan Caves (N.S.W.).—Trickett, O.
 Wood, lignite &.—Arth, G.
 —, peat-bog.—Lamarlière, L. G. de.
 —, Triassic.—Shaler, N. S., &c.
 Woodhall Spa (Lincoln).—Williams, C. J.
 Woods, Lake of the (Ont.).—McKellar, P.
Woodwardia.—Hague, A., &c.
 Woodwardian Museum.—Reed, F. R. C.; Woods, H.
 Worcestershire.—Bonney, T. G.; Groom, T. T.
Worthenia.—Koken, E.; Tornquist, A.; Yakovlev, N.
 Wulfenite.—Pelloux, A.; Tacconi, E.
 Wuntho (Burma).—Stonier, G. A.
 Württemberg (Germany).—Fraas, E.; Gugenhan, —; Holland, F.; Koken, E.; Miller, K.; Rollier, L.; Schmidt, A.; Wuelfing, E. A.
 Wylam, West (Northumberland).—Bates, S.
 Wynaad (Madras).—Hayden, H. H.
 Wyoming (U.S.A.).—Brandegge, T. S.; Eastman, C. R.; Holland, W. J.; Logan, W. N.; Osborn, H. F.; Walcott, C. D.; Ward, L. F.; Williams, G. M.
Xanthilites.—Segerberg, K. O.
 Xea Sant' Antonio (Sardinia).—Canavari, M.
Xenophora.—Rovert, G.
Xiphodon & *Xiphodontherium*.—Pavlov, M.
 Xulla Is. (D.E.I.).—Bœhm, G.
Xyphodictya.—Vinassa de Regny, P. E.
 Yakutsk (Siberia).—Diener, C.; Toll, Baron E. von.
 Yalwal (N.S.W.).—Jaquet, J. B.
 Yar R. (I. of Wight).—Warren, S. H.
 Yarrangobilly (N.S.W.).—Trickett, O.
 Yellowstone National Park (U.S.A.).—Hague, A., &c.
 Yenesei R. (Siberia).—Glasser, E.; Toll, Baron E. von.
 Yoldia-sea shore-lines.—Hackman, V.
 Yordale Rocks.—Woodward, A. S.
 York Peninsula (S. Austr.).—Howchin, W.
 Yorkshire.—Elsden, J. V., &c.; Greenwell, A.; Jukes-Browne, A. J.; Kendall, P. F.; Lozé, E.; Monckman, J.; Mortimer, J. R.; Sheppard, T.; Slade, H. P.; Stather, J. W.; Thompson, W. H.; Watts, W.; Wellburn, E. D.; Wilson, J. E.; Woodward, A. S.
 Yosemite Valley (U.S.A.).—Blake, W. P.
 YOUNG, J.—Jones, T. R.
 Yukon district (N.W. Canada).—McConnell, R. G.; Tyrrell, J. B.
 Yulgilbar (N.S.W.).—Carne, J. E.
 Yverdon (Valais).—Schardt, H.
 Zacatecas (Mexico).—Halse, E.
Zacanthoides.—Hague, A., &c.
Zamites.—Ward, L. F., &c.
 'Zancleano.'—Silvestri, A.
Zanclodon.—Fraas, E.
Zaphrentis.—Grabau, A. W.; Herrick, C. L.; Rowley, R. R.
Zeacrinus.—Beede, J. W.
 Zeagonite.—Thugutt, St. J.
Zeilleria.—Bornhardt, W., &c.; Zeiller, R.
 Zellerfeld (Harz) Mining Engineers' Society.—Brough, B. H.
 Zemindari (Madras).—Walker, T. L.
 Zeolites.—Ongaro, G.; Spurr, J. E.
 ZEITEN's types.—Crick, G. C.
 Zinc, blende.—Hintze, C.
 —, distribution.—Beck, R.
 —, hydrous silicate.—Kaiser, E.
 —, United States.—Garrison, F. L.; Kirchoff, C.; Penfield, S. L., &c.; Stevens, H. J.

Zinc-schefferite.—Wolff, J. E., &c.

—, Tasmania.—Haber, E.

Zircon.—Kunz, G. F.

Zizyphus.—Fliche, P.; Hague, A., &c.

Zoisite.—Heddle, M. F.; Termier, P.

Zombo, Mt. (British East Africa).—

Gregory, J. W.

Zonal arrangement, mineral.—Doku-
shaev, V.

Zones, Carboniferous.—Garwood, E. J.

—, Cretaceous.—Dibley, G. E.; Jukes-

Browne, A. J.; Rowe, A. W.

Zoological Gardens well.—Sclater, P. L.

Zwickau (Saxony).—Dalmer, K.

Zygolestes.—Ameghino, F.

Zygopleura.—Yakovlev, N.

Zygopteris.—Scott, D. H.

Zygostephanus.—Holmes, W. M.

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LIST OF ABBREVIATIONS USED FOR THE NAMES OF PUBLICATIONS, SOCIETIES, AND PUBLIC BODIES.

Abh. = Abhandlungen.
Abs. = Abstracts.
Acad. = Academy.
Actes = also Verh.
Afh. = Afhandlingar.
Allgem. = Allgemeine.
An. = Anaes.
Ann. = Annals, Annuaire, Annual, etc.
Anthr. = Anthropologie, etc.
Anz. = Anzeiger.
Arch. = Archiv, Archives.
Archæol. = Archæologist, Archæology,
etc.
Årssk. = Årsskrift.
Assoc. = Association.
Austral. = Australia, etc.
Balk. = Balkanique.
Beitr. = Beiträge.
Ber. = Bericht, Berichte.
Berg. = Bergwesen.
Bibl. = Biblical.
Biol. = Biological.
Biom. = Biometry.
Bol. = Boletin, Boletim.
Boll. = Bollettino.
Bot. = Botanical.
Bull. = Bulletin.
Centralbl. = Centralblatt.
Chem. = Chemical.
Coll. = Colliery, College.
Com. = Comitato, etc.
Comm. = Comissão, etc.
Conch. = Conchology, etc.
Congr. = Congress.
C.-R. = Comptes-rendus.
Denkschr. = Denkschriften.
Dir. = Direcção, etc.
Earthq. = Earthquake.
Engin. = Engineering, Engineers.
Erdk. = Erdkunde.
Erläut. = Erläuterungen.
F. C. = Field Club.

Festschr. = Festschrift.
Földt. = Földtani.
Foren. = Forening.
Förh. = Förhandlingar.
Geogn. = Geognostische.
Geogr. = Geographical.
Geol. = Geological, Geologist.
Gesch. = Geschichte.
Gesellsch. = Gesellschaft.
Handl. = Handlingar.
Helv. = Helvétique.
Hist. = History.
Hofmus. = Hofmuseum.
Hütt. = Hüttenwesen.
Idrogr. = Idrografico.
Indust. = Industrial.
Inst. = Institute, Institution.
Izv. = Izvestia.
Jaarb. = Jaarboek.
Jahrb. = Jahrbuch.
Jahresb. = Jahresbericht.
Jahresh. = Jahresheft.
Journ. = Journal.
K. = Königlich, Kaiserlich, etc.
Közl. = Közlöny.
Landesanst. = Landesanstalt.
Landesd. = Landesdurchforschung.
Lefnadst. = Lefnadsteckningar.
Lingust. = Lingustica.
Linn. = Linnean, etc.
Lit. = Literary.
Mag. = Magazine.
Malacol. = Malacological, etc.
Mater. = Materialien, Matériaux.
Math. = Mathematisch, etc.
M. E. = Mining Engineers.
Med. = Medical, etc.
Meddel. = Meddelelanden, Meddelelser.
Mem. = Memoirs, etc.
Metall. = Metallurgy.
Met. = Meteorological.
Mijnw. = Mijnwezen.

Min. = Mineralogy, Mining, etc.
Monogr. = Monographs.
Mus. = Museum, etc.
N. = Neues, New, etc.
Nac. = Nacional.
Nat. = National, Natural.
Naturf. = Naturforschende.
Naturgesch. = Naturgeschichte.
Naturh. = Naturhistorische.
Naturw. = Naturwissenschaftliche.
Ned. O.I. = Nederlandsch Oost-Indië.
Notizbl. = Notizblatt.
Nouv. = Nouveaux.
N.S. = Nova Scotia.
N.Z. = New Zealand.
Observ. = Observatoire, etc.
Öfvers. = Öfversigt.
Overs. = Oversigt.
Palæont. = Palæontographical, etc.
Phil. = Philosophical.
Philom. = Philomathique.
Photogr. = Photographie.
Phys. = Physical, etc.
Proc. = Proceedings.
Proc.-verb. = Procès-verbaux.
Progr. = Progress.
Publ. = Publications.
Q. = Quarterly.
R. = Royal, Real, Reale, etc.
Rec. = Records.
Reliq. = Reliquary.

Rendic. = Rendiconti.
Rep. = Report, etc.
Rev. = Revista, Revue.
Rozpr. = Rozprawy.
S. A. = South Africa.
Samml. = Sammlungen.
Sav. = Savant, etc.
Schr. = Schriften.
Schw. = Schweizer.
Sci. = Science, Scientific, etc.
Selsk. = Selskab.
Senckenb. = Senckenbergisch.
Serv. = Service, etc.
Sitz. = Sitzungsberichte.
Smiths. = Smithsonian.
Soc. = Society, etc.
Summ. = Summary.
Surv. = Survey.
Tosc. = Toscana.
Trans. = Transactions, etc.
Umiej. = Umiejętności.
Undersög. = Undersögelse.
Undersök. = Undersökning.
Univ. = University.
Ver. = Verein.
Verh. = Verhandlungen.
Vidensk. = Videnskabelnes.
Wetterau. = Wetterauische.
Zap. = Zapiski.
Zeitschr. = Zeitschrift.
Zool. = Zoology, etc.

EXAMPLES OF ABBREVIATIONS OF THE NAMES OF SOCIETIES AND PUBLIC BODIES.

Acad. Cæsareo Leopoldino-Carolina. Academia Cæsareo Leopoldino-Carolina.
Naturæ Curiosorum. Halle.
Acad. Stanislas. Académie de Stanislas. Nancy.
Akad. Umiej. Krakow. Akademii Umiejętności. Cracow.
Allgem. schw. Gesellsch. Naturw. Allgemeine schweizerische Gesellschaft für die
 gesammten Naturwissenschaften. Geneva, Zürich, &c.
Am. Acad. Arts & Sci. American Academy of Arts and Sciences. Boston (Mass.).
Am. Geol. American Geologist. Minneapolis (Minn.).
Am. Inst. M. E. American Institute of Mining Engineers. New York.
Am. Mus. Nat. Hist. N.Y. American Museum of Natural History. New York.
Am. Nat. American Naturalist. Boston (Mass.).
Analyst. Analyst (Society of Public Analysts). London.
Ann. Géogr. Paris. Annales de Géographie. Paris.
Ann. géol. Pévins. balk., Belgrad. Annales géologiques de la Péninsule balkanique.
 Belgrade.
Ann. idrogr. Rome. Annali idrografici. Rome.
Ann. Sci. nat. (Zool. & Palé.). Annales des Sciences naturelles: Zoologie et
 Paléontologie. Paris.
Arch. f. Anthr. & Geol. Schleswig-Holsteins. Archiv für Anthropologie und
 Geologie Schleswig-Holsteins und der benachbarten Gebiete. Kiel.
Arch. néerland. Sci. Archives des Sciences exactes et naturelles, publiées par
 la Société hollandaise des Sciences à Haarlem. La Haye.
Arch. Sci. phys. et nat. Genève. Archives des Sciences physiques et naturelles.
 Geneva.
Assoc. franç. Av. Sci. Association française pour l'Avancement des Sciences.
 Paris.
Austral. Inst. M. E. Australasian Institute of Mining Engineers. Melbourne
 (Austr.).
Austral. Mus. Australian Museum. Sydney (N.S.W.).

- Badisch. geol. Landesanst.* Großherzoglich badische geologische Landesanstalt. Heidelberg.
- Beitr. Geophys. Leipzig.* Beiträge zur Geophysik. Leipzig.
- Beitr. Paläont. Oesterr.-Ung.* Beiträge zur Paläontologie und Geologie Oesterreich-Ungarns und des Orients. Vienna.
- Berg-hütt. Jahrb. Wien.* Berg- und hüttenmännisches Jahrbuch der kaiserlich-königlichen Bergakademien zu Leoben und Příbram und der königlich-ungarischen Bergakademie zu Schemnitz. Vienna.
- Berwicks. Nat. Club.* Berwickshire Naturalists' Club. Alnwick.
- Biol. Soc. Washington.* Biological Society of Washington. Washington (D.C.).
- Bristol Mus.* Bristol Museum. Bristol.
- Brit. Assoc. Waterworks Eng.* British Association of Waterworks Engineers. London.
- Canad. Rec. Sci.* Canadian Record of Science. (Natural History Society of Montreal.) Montreal.
- Carolina (N.) Geol. Surv., Econ. Papers.* North Carolina Geological Survey. Economic Papers. Raleigh (N. Car.).
- Carte géol. Suisse.* Carte géologique de la Suisse. Berne.
- Centralbl. f. Min.* Centralblatt für Mineralogie, Geologie und Paläontologie. Stuttgart.
- Chem. News.* Chemical News. London.
- Coll. Guardian.* Colliery Guardian. London.
- Coll. Sci. Tokyo.* College of Science, Imperial University. Tokyo.
- Colo. Coll. Studies.* Colorado College Studies. Colorado Springs (Colo.).
- Com. geol. España.* Comisión del Mapa geológico de España. Madrid.
- Comm. geogr. e geol. São Paulo.* Comissão geographica e geologica de São Paulo. São Paulo (Brazil).
- Comm. géol. Finlande.* Commission géologique de Finlande. Helsingfors.
- Com. géol. Russie.* Comité géologique. St. Petersburg.
- Congrès Soc. sav. Paris.* Congrès des Sociétés savantes. Paris.
- Connect. Acad.* Connecticut Academy of Arts and Sciences. New Haven (Conn.).
- Cotteswold Nat. F. C.* Cotteswold Naturalists' Field Club. Gloucester.
- Dan. geol. Undersög.* Danmarks geologiske Undersøgelse. Copenhagen.
- Dansk geol. Fören.* Dansk geologisk Förening. Copenhagen.
- Dep. Geol. Indiana.* Department of Geology and Natural Resources of Indiana. Indianapolis (Ind.).
- Dep. Lands W. Austral.* Department of Lands and Surveys. Perth.
- Dep. Mines N.S.* Department of Mines of Nova Scotia. Halifax (N.S.).
- Dep. Mines, N.S.W.* Department of Mines, New South Wales. Sydney.
- Deutsch. geol. Gesellsch.* Deutsche geologische Gesellschaft. Berlin.
- Deutsch. u. österreich. Alpenver.* Deutscher und österreichischer Alpenverein. Munich.
- Deutsch. wissensch. Ver. Santiago.* Deutscher wissenschaftlicher Verein zu Santiago. Valparaiso.
- Devon. Assoc.* Devonshire Association for the Advancement of Science, Literature, and Art. Plymouth.
- Dir. Serv. geol. Portugal.* Direcção dos Serviços geologicos de Portugal. Lisbon.
- Earthq. Comm. Tokyo.* Earthquake Investigation Committee. Tokyo.
- Eclogæ Geol. Helv.* Eclogæ Geologicae Helvetiæ. Lausanne.
- Essex Nat.* Essex Naturalist. London.
- Földt. Közl.* Földtani Közlöny. [Geological Magazine.] Budapest.
- Geogn. Jahresh., München.* Geognostische Jahreshefte. Munich.
- Geogr. Abh., Wien.* Geographische Abhandlungen. Wien. Vienna.
- Geogr. Anz.* Geographischer Anzeiger. See *Peterm. Mitth.*
- Geol. palæont. Abh. Jena.* Geologische und palæontologische Abhandlungen. Jena.
- Geol. Univ. Cal.* Department of Geology, University of California. Berkeley (Cal.).
- Gesellsch. f. Erdk., Berlin.* Gesellschaft für Erdkunde. Berlin.
- Ind. Acad. Sci.* Indiana Academy of Science. Indianapolis (Ind.).
- Ind. Eng.* Indian Engineering. Calcutta.
- Inst. Gt. B.* Royal Institution of Great Britain. London.
- Inst. Mines & Forests Brit. Guiana.* Institution of Mines and Forests. Georgetown (Demerara).
- Jaarb. Mijnw. Ned. O.-Ind.* Jaarboek van het Mijnwezen in Nederlandsch Oost-Indië. Amsterdam.
- Jahrb. f. Berg- u. Hüttenw. Sachsen.* Jahrbuch für das Berg- und Hüttenwesen im Königreiche Sachsen. Freiberg.

- Journ. Biom.* Journal of Biometry. London.
- Lunds Univ. Årssk.* Lunds Universitets Årsskrift. Lund.
- Malacol. Soc.* Malacological Society. London.
- Manch. Lit. Phil. Soc.* Manchester Literary and Philosophical Society. Manchester.
- Meddel. Grönland.* Meddelelser om Grönland, udgivne af Commissionen for Ledelsen af de geologiske og geographiske Undersøgelser i Grönland. Copenhagen.
- Min. petr. Mitth.* Mineralogische und petrographische Mittheilungen. Vienna.
- Naturw. Landesd. Böhmen.* Naturwissenschaftliche Landesdurchforschung von Böhmen. Prague.
- Reliq. & Ill. Archæol.* The Reliquary and Illustrated Archæologist. London.
- Rev. Cienc., Lima.* Revista de Ciencias. Lima.
- Rev. crit. Paléozool.* Revue critique de Paléozoologie. Paris.
- Russ.-k. min. Gesellsch.* Russisch-kaiserliche mineralogische Gesellschaft. St. Petersburg.
- Sec. géol. Cab. S. M. St. Pétersb.* Section géologique du Cabinet de Sa Majesté. St. Petersburg.
- Senckenb. naturf. Gesellsch.* Senckenbergische naturforschende Gesellschaft. Frankfurt-am-Main.
- Soc. cient. 'Ant. Alzate.'* Sociedad científica 'Antonio Alzate.' Mexico.
- Soc. franç. Min.* Société française de Minéralogie. Paris.
- Soc. 'Ger. Guidoni' Spezia.* Società 'Gerolamo Guidoni' per la Diffusione e l'Incremento degli Studi naturali. Spezia.
- Soc. helv. Sci. nat.* Société helvétique des Sciences naturelles. See *Allgem. schw. Gesellsch.*
- Soc. philom. Verdun.* Société philomathique de Verdun. Verdun.
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- ABBE, C., JUN. See CLARK, W. B., &c.
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- , Valais.—Duparc, L.
- Alsace-Lorraine.—Liebheim, E.
- Altai (Siberia).—Suess, E.
- , Gobi (Siberia).—Krahmer, —.
- Altaite.—Eakle, A. S.
- Alumina, granites & clays.—Vydrovski, S.
- Aluminium, U.S.A.—Day, D. T.
- Aluminous iron-ore, New South Wales.—Jaquet, J. B.
- Alunogen. *See* Keramohalite.
- Alveinus*.—Dall, W. H.
- Alveolina*.—Martelli, A.
- Alveolites*.—Frech, F., &c.; Peetz, H. von.
- Alveopora*.—Angelis d'Ossat, G. de.
- Alzon (Gard).—Brun, P. de.

- AMALITZKI, A. P.—Lœwinson-Lessing, F.
Amaltheus.—Bettoni, A.
Amara.—Scudder, S.
Amastigia.—Maplestone, C. M.
 Amazon R. (S. Am.).—Church, G. E.
 Amazonas (Brazil).—Katzner, F.
 Amber.—Dahms, P.
Amberleya.—Cossmann, M.
Amberlyacrum.—Cossmann, M., &c.
 Amblygonite.—Lasne, H.; Launay, L. de.
Amblysiphonella.—Beede, J. W.
Ambodælia.—Grabau, A. W.; Kindle, E.
 Amélie-les-Bains (Pyrénées-Orientales).—Bertrand, L., &c.
 America (Central).—Hershey, O. H.
 —(North) Carboniferous.—Keyes, C. R. See also Carboniferous.
 —(—) Great Lakes.—Gilbert, G. K.
 —(—). See also Alaska, Canada, U.S.A., &c.
 —(South).—Church, G. E.; Villareal, F.
 —(—). See also Argentina, Brazil, &c.
 American Museum of Natural History (N.Y.). See Museums.
 —vertebrate palæontology.—Osborn, H. F.
Americus-limestone, Kansas.—Smith, A. J.
 АМІ, H. M., Bibliography of, 1882-1901.—Ami, H. M.
Amia.—Leriche, M.; Priem, F.
Amilnedwardsia.—Ameghino, F.
Ammodiscus.—Egger, J. G.; Grzybowski, J.; Spandel, E.
Ammonitella.—Stearns, R. E. C.
 Ammonites, Carboniferous.—Foord, A. H.; Smith, J. P., &c.
 —, Cretaceous.—Crick, G. C.; Imkeller, H.; Johnson, J. P.; Pavlov, A. V.; Radde, G.
 —, deformation of.—Rothpletz, A.
 —, Jurassic.—Bettoni, A.; Böese, E.; Canavari, M.; Fucini, A.; Loriol, P. de; Peach, B. N., &c.; Plieninger, F.; Rothpletz, A.
 —, *Murchisonia* - beds.—Huene, F. von; Struebin, K.
 —, Trias.—Philippi, E.
 —. See also Cephalopoda.
Amnicola.—Grabau, A. W., &c.
 Amphibia, Carboniferous.—Elliot, G. F. S., &c.
Amphiblestrum.—Maplestone, C. M.
 Amphibolite.—Beck, R.; Cole, G. A. J.
 Amphibolitic schists, Piedmont.—Preiswerk, H.
Amphibrachium.—Neviani, A.
Amphiceras.—Bettoni, A.
Amphicyon.—Wortman, J. L.
Amphicyrta.—Scudder, S. H.
Amphihelia.—Vaughan, T. W.
Amphion.—Jäkel, O.
Amphisphyra.—Cossmann, M., &c.
Amphistegina.—Clarke, W. B., &c.; Egger, J. F.
Amplexus.—Lambe, L. M.; Rowley, R. R.
Anpullaria.—Radovanovič, S.
Ampyx.—Bjærlykke, K. O.
Amussium.—Bonarelli, G.
 Analyses, rock.—Hillebrand, W. F.
 —. See also Igneous rocks, &c.
Anarcestes.—Clarke, J. M.
Anastrophia.—Grabau, A. W., &c.
 Anatase.—Königsberger, J.
Anathyris.—Peet, H., von.
 Anatolia (Asia Minor).—Montessus-de-Ballore, F. de; Schaffer, F.; Weiss, K. E.
Anchilophus.—Depéret, C., &c.
Anchistrum.—Ameghino, F.
Ancillaria.—Oppenheim, P.
Ancylolælus.—Ameghino, F.
Ancylus.—Wuest, E.
 Andes (S. Am.).—Burckhardt, C.; Church, G. E.; Gallois, L.; Lapparent, A. de; Ochsenius, C.; Rabot, C.
 Andesite, Auvergne.—Boule, M.
 —, New Zealand.—Park, J.
 —, Siebengebirge.—Laspeyres, H.
 —, Tortworth.—Morgan, C. Ll., &c.
 —. See also Igneous rocks.
 Andorre Republic (Pyrenees).—Bellows, W.
Aneimites.—White, D.
Angelus.—Clark, W. B., &c.
 Angerburg (E. Prussia).—Gagel, C.
 Anglesey (Wales).—Callaway, C.; Greenly, E.; Matley, C. A.; Morton, G. H.
 Angleur (Liège).—Fourmarier, P.
 Angola (W. Africa).—Choffat, P.; Delgado, J. F. N.; Gomes, J. P.
 Anguilla (W.I.).—Spencer, J. W. W.
 Anharmonic ratio.—Hilton, H.
 Anhydrite.—Hermann, F.; Leuze, A.; Van't Hoff, J. H.
Anisodonta.—Dall, W. H.
Anisolambda.—Ameghino, F.
 Anitsana (Ecuador).—Reiss, W.
 Anjou (France).—Dollfus, G. F.
 Annelid-burrows.—Macnair, P.
 Annelid-tracks.—Cole, G. A. J.
 Annelida, Carboniferous.—Elliot, G. F. S., &c.
 —, Silurian.—Chapman, F.; Grabau, A. W., &c.; Macnair, P.
 Anniviers (Valais).—Schmidt, C.
Annularia.—Kidston, R.
Anodonta.—Fritsch, A.
Anodontopleura.—Douvillé, H.
Anogninus.—Williston, S. W., &c.
Anolotichia.—Sardeson, F. W.
Anomalina.—Clark, W. B., &c.; Egger, J. G.; Procházka, V. J.; Schubert, R. J.
Anomaloidesmacea.—Clark, W. B., &c.
Anomia.—Clark, W. B., &c.; Oppenheim, P.
Anomozamites.—Seward, A. C.; Ward, L. F., &c.

- Anoplophora*.—Checchia, G.
Anoplotheca.—Grabau, A. W., &c.
Anoplotherium.—Nœtling, F.
 Anorthite.—Becke, F.; Vogt, J. H. L.; Warren, C. H.
 Anorthoclase.—Riva, C.
 Antarctic.—Arctowski, H.; Bernacchi, L.; Blanford, W. T.; Murray, G., &c.
 Antelope, Chiru-like.—Lydekker, R.
Anthepithecus.—Ameghino, F.
 Anthracite, China.—Monod, G. H.
 —, New Mexico.—Lake, A.
 —, Pennsylvania.—White, D.
 —, Queensland.—Dunstan, B.
Anthracomartus.—Ammon, L. von.
Anthracomya.—Jones, T. R.
Anthrocomyces.—Kaunhowen, F.
Anthracosia.—Fritsch, A.
 Antigonish Co. (Nova Scotia).—Ami, H. M.
 Antigua (W.I.).—Spencer, J. W. W.
 Antilles. See West Indies.
 Antimony, Australasia.—Coghlan, T. A.
 —, Bohemia.—Hofmann, A.
 —, France.—Launay, L. de.
 —, Tuscany.—Lotti, B.
 —, United States.—Parker, E. W.
 Antipaxos (Ionian Is.).—Martelli, A.
 Antwerp (Belgium).—Abel, O.; Moulton, M.; Pergens, E.; Storms, R.; Van Ertborn, Baron O.
Aorocrinus.—Rowley, R. R.
 Aosta Valley (Piedmont).—Millosevich, F.
Apateodus.—Woodward, A. S.
 Apatite.—Berwerth, F.; Vogt, J. H. L.
 Apennines (Italy).—Fucini, A.; Issel, A.; Parona, C. F.; Ristori, G.; Trabucco, G.
Aphastræa.—Angelis d'Ossat, G. de.
Apheloceras.—Foord, A. H.
 Apigné (Britanny).—Kerforne, F.; Picquenard, C.
Aplexa.—Wuest, E.
 Aplite.—Weed, W. H.
 Apolobamba (Peru).—Malsch, C.
 Apophyllite.—Zambonini, F.
Aporrhais.—Clark, W. B., &c.
 Appanoose Co. (Iowa).—Rutledge, J. J.
Apricardia.—Parona, C. F.
Aprocallistes.—Geinitz, E.
 Apt (Provence).—Kilian, W.
 Apulia (Italy).—Checchia, G.
Apus.—Lindstrøm, G.
 Aqua formation, Maryland. — Clark, W. B., &c.
 Aquila (Abruzzo).—Moderni, P.; Schnarrenberger, C.
 Aquitaine (France).—Glangeaud, P.; Raulin, V.
 Aquitanian, Piedmont.—Alessandri, G. de.
 Arabia.—Hume, W. F.; Milnes, S. B.; Mitchell, C. A.
Arachnophyllum.—Lambe, L. M.
 Aragonite.—Brauns, R.; Meigen, W.; Muegge, O.
Aralia, *Araucaria*.—Fritsch, A., &c.
Araucarites.—Seward, A. C.; Ward, L. F., &c.
Araucarioxylon.—Ward, L. F., &c.
 Arbory (I. of Man).—Kewley, J.
Arca.—Clark, W. B., &c.; Dall, W. H.; Lorient, P. de; Nœtling, F.; Oppenheim, P.; Peach, B. N., &c.; Pritchard, G. B.; Procházka, V. J.; Steinmann, G.
Arcestes.—Reis, O. M.
 Archæan, Anglesey.—Callaway, C.
 —, Brittany.—Credner, H.
 —, Greenland.—Nathorst, A. G.
 —, Malvern.—Groom, T. T.
 —, Norway.—Tørnebohm, A. E.
 —, Scotland.—Horne, J.
 —, Sweden.—Nordenskjöld, O.
 —, Switzerland.—Winchell, N. H.
Archæocidaris.—Beede, J. W.
Archæocyathus.—Peetz, H. von.
Archæolemur.—Grandidier, G.
Archæopithecus.—Ameghino, F.
Archæopteris.—Vaffier, A.
Archegosaurus.—Döderlein, L.
Archeobolus.—Case, E. C.
Archicapsa.—Neviani, A.
Archicarbides.—Fritsch, A.
 Arcona (Rügen).—Bonney, T. G.
 Arctic.—Anderson, J. G.; Bell, R.; Cleve, P. T.; Dall, A.; Kayser, E.; Knipovitch, N.; Lapparent, A. de; Lindstrøm, G.; Low, A. P.; Nathorst, A. G.; Renault, B.; Tørnebohm, A. E.; Walcott, C. D.; Whitfield, R. P.
 Arctic dust.—Cleve, P. T.
Arctocyon.—Gaudry, A.
 Ard, Loch (Perth).—Peach, B. N., &c.
 Ardèche (France).—Sayn, G., &c.
 Ardennes.—Arctowski, H.; Brunner, H.; Dormal, V.; Gosselet, J.; Klement, C.; Malaise, C.; Raisin, C. A.; Reade, T. M.; Renard, A. F.; Wichmann, A.
 Ardnamurchan (Argyll).—Busz, K.
 Arenas Pt. (Tierra del Fuego).—Pœhlmann, R.
 Arendal (Christiansund).—Cesàro, G.
 Arenig, Forfarshire & Kincardineshire. — Barrow, G.
 Argenteuil (Seine-et-Oise).—Janet, J.
 Argentina (S. A.).—Bochert, A.; Bodenbender, G.; Buttgenbach, H.; Church, G. E.; Moreno, F. P.; Sangiorgi, D. —. See also Patagonia.
 Argentine-Chilian Andes.—Burchhardt, C.; Rabot, C.
Argillæcia.—Namias, I.
 Argues (Aude).—Bresson, —.
 Argyllshire.—Hill, J. B.; Jessen, A.; Kynaston, H.
Argyroceretus.—Abel, O.
 Argyrodite.—Frenzel, A.
Argyrohyrax.—Ameghino, F.
Arícia.—Nœtling, F.
 Ariège (France).—Caralp, J.; Lacroix, A.
 Ariegite.—Lacroix, A.
 Irish Mell (Dorset).—Rowe, A. W.
Aristolochia.—Fritsch, A., &c.

- Arius*.—Leriche, M.; Woodward, A. S.
 Arizona (U.S.A.).—Blake, W. P.; Comstock, T. B.; Fissler, M.; Ward, L. F.
 Arkansas (U.S.A.).—Brammer, J. C.; Haworth, E.; Hershey, O. H.; Keyes, C. R.; Purdue, A. H.; Washington, H. S.
 Armagh (Ireland).—Nolan, J.
 Armenia (Asia Minor).—Frech, F., &c.
 Armerican.—Credner, H.; Kerforne, F.; Lebesconte, P.
 Arno Valley (Tuscany).—Pantanelli, D.
 Aroostook Co. (Me.).—Gregory, H. E.; Williams, H. S.
Arothele.—Crosby, W. O.
Arpadites.—Diener, C.
 Arquenne (Hainault).—Dorlodot, H. de.
 Arran (I. of).—Cowie, C. R.; Gunn, W.; Macnair, P.; Peach, B. N., &c.; Smith, J.
 Arras (Pas-de-Calais).—Gosselet, J.
 Arsenates, natural.—Chester, A. H.; Hartley, E. G. J.; Miers, H. A.
Artemis.—Clark, W. B., &c.
 Artesian water, salt in.—Toubeau, J.
 —, wells, ancient & modern.—Anon., 49.
 —, Belgium.—Rutot, A.; Van den Broeck, E.; Vanhove, D.
 —, India.—Baxter, B.; Vredenburg, E.
 —, Iowa.—Calvin, S.; Norton, W. H.
 —, Kansas.—Knerr, E. B.
 —, New Zealand.—Page, S.
 —, Queensland.—Cameron, W. E.; Jack, R. L.; Rands, W. H.
 —. See also Borings.
 Arthrognathi.—Dean, B.
 Arthropoda.—See Crustacea.
 Artinskian, Carnic Alps.—Angelis d'Ossat, G. de.
Artisia.—Burr, H. T.
 Artois (France).—Rutot, A.
Artostrobos.—Neviani, A.
 Arube I. (D.W.I.).—Vaughan, T. W.
Arysidictya.—Hall, J., &c.
 Asaphian.—Williams, H. S.
Asaphus.—Bjørlykke, K. O.; Jækel, O.; Lindstrøm, G.
 Asbestos.—Olds, H. F.; Parker, E. W.
 Ash (Kent).—Bullen, R. A.
 Asia, Central.—Krahmer, —; Suess, E.; Wright, G. F.
 —, Eastern.—Fliegel, G.; Richthofen, Baron F. von.
 —, Northern.—Wright, G. F.
 —, Southern.—Fliegel, G.
 —. See also China, Himalayas, Siberia, &c.
 Asia Minor.—Berg, G.; Frech, F., &c.; Montessus-de-Ballore, F. de; Schaffer, F.; Schubert, B. J.; Weiss, K. E.
Asimina.—Knowlton, F. H.
Asmithwoodwardia & *Asmodeus*.—Ameghino, F.
 Asphalt, Austria-Hungary.—John, C. von, &c.
 Asphalt, Brunswick.—Köenen, A. von.
 —, Dead Sea.—Mitchell, C. A.
 —, France.—Launay, L. de.
 —, United States.—Parker, E. W.
Aspidoceras.—Canavari, M.
Asplenium.—Fritsch, A., &c.; Knowlton, F. H.
 Assam.—Griesbach, C. L.
 Asta, Cima d' (Tyrol).—Trener, G. B.
Astænius.—Scudder, S. H.
Astarte.—Bæhm, G.; Clark, W. B., &c.; Cossmann, M., &c.; Dall, W. H.; Logan, W. N.; Loriol, P. de.
Astartella.—Beede, J. W.
Asterias.—Logan, W. N.
Asterocarpus.—Ward, L. F., &c.
Asterocidaris.—Lambert, J.
Asterolepis.—Woodward, A. S.
Astræopora.—Angelis d'Ossat, G. de; Oppenheim, P.
 Astrakhan (Russia).—Rehbinder, R.
Astrangia.—Vaughan, T. W.
Astraponotus.—Ameghino, F.
Astrocenia.—Oppenheim, P.; Vaughan, T. W.
Astrohelix.—Vaughan, T. W.
 Astronomy, earth's axis &.—Péroche, J.
Astyris.—Dall, W. H.
Asymptoceras.—Foord, A. H.
 Atacama (Chile).—Barber, G. M.; Church, G. E.; Murdoch, J. A. W.
Ataphrus.—Cossmann, M.
 Atchinsk (Siberia).—Saytzev, A.
 Atchison (Kan.).—Langworthy, A. E.; Porter, F. B.
Atherosperma.—Deane, H.
Athleta.—Clark, W. B., &c.
Athrotaxidum.—Menzel, P.
Athyris.—Frech, F., &c.; Girty, G. H.; Kindle, E.; Whidborne, G. F.
 Atlantic basin (N.), submerged.—Hudleston, W. H.; Hull, E.
 —, coastal plain (N.).—Shattuck, G. B.
 Atlin (B. C.).—Watson, R. L.
 Atmospheric dust.—Meunier, St.; Phipson, T. L.
 Atoll, Minikoi.—Gardiner, J. S.
Atractites.—Campana, D. del.
Atrypa.—Grabau, A. W., &c.; Guerich, G.; Kindle, E.; Peetz, H. von.
Atta.—Fritsch, A., &c.
Attagenus.—Scudder, S. H.
 Attica (Greece).—Woodward, A. S.
Aucella.—Borisjak, A.; Nathorst, A. G.; Pompeckj, J. F.; Wollemann, A.
Aucellina.—Pompeckj, J. F.
 Auckland (N.Z.).—Tattley, W.
 Aude (France).—Bresson, —.
 Audenarde (Flanders).—Van Ertborn, Baron O.
 Augite-andesite.—Chapman, F., &c.
 —, —, syenite.—Anon., 44.
Aulacorhinus.—Beede, J. W.
Aulacothyrus.—Greppin, E.; Loriol, P. de.
Aulopora.—Beede, J. W.; Rowley, R. R.
Aulosteges.—Frech, F.; Schellwien, E.
Auricula.—Cossmann, M., &c.

- Aurichalcite.—Chester, A. H.
 Auriferous conglomerates, &c. *See* Gold, &c.
 — gravels.—Ferguson, W. H.; Gledhill, E.; Hanks, H. G.; Welton, W. S.
 Aurillac (Auvergne).—Puech, C.
 Auriol (Provence).—Fournier, E.
 Aust Cliff (Gloucester).—Morgan, C. Ll.
 Australasia.—Coghlan, T. A.
 Australia, theory of Tertiary cosmopolitan flora.—Deane, H.
 —. *See also* Coal, Gold, &c.
 — (S.).—Chewings, C.; Coghlan, T. A.; Dennant, J.; Eissler, M.; Goyder, A.; Howchin, W.; Mennell, F. P.; Penck, A.; Tate, R.
 — (W.).—Blatchford, T.; Campbell, W. D.; Carnot, A.; Coghlan, T. A.; Eissler, M.; Frecheville, W.; Hine, E. W.; Krusch, P.; Mactear, J.; Maitland, A. G.; Rickard, T. A.; Shields, W. H.; Simpson, E. S.; Woodward, H. P.
 Austria (Lower).—Abel, O.; Bittner, A.; Fuchs, T.; Knett, J.; Noë, F.; Penck, A., &c.
 — (Upper).—Fugger, E.; Penck, A., &c.; Schwab, F.
 Austria-Hungary.—Anon., 30; Forster, A. E.; Hornes, R.; John, C. von, &c.; Mojsisovics, E. von; Oppenheim, P.; Stirling, J.; Wiudakiewicz, E.
 —, earthquake-catalogue 1897–1900.—Lagrange, E. *See also* Earthquakes.
 —, Geological Institute. *See* Geological Surveys.
 —. *See also* Bohemia, Earthquakes, Tyrol, &c.
 Auvergne (France).—Biélawski, J. B. M.; Bonney, T. G.; Boule, M.; Dannenberg, A.; Glangeaud, P.; Johnston, M. S.; Martin, D.; Puech, C.; Sabatini, V.
 —. *See also* Puy-de-Dôme, &c.
 Auvers-sur-Oise (Seine-et-Oise).—Dollfus, G. F.
 Averno (Phlegræan Fields).—Pampaloni, L.
 Aves. *See* Birds.
 Aveyron (France).—Bergeron, J., &c.
 Avicula.—Boehm, G.; Clark, W. B., &c.; Greppin, E.; Kayser, E.; Logan, W. N.; Nötling, F.; Peach, B. N., &c.; Peetz, H. von.
 Aviculolima.—Philippi, E.
 Aviculopecten.—Beede, J. W.; Fliegel, G.; Frech, F.; Kindle, E.; Tommasi, A.
 Aviculopinna.—Beede, J. W.
 Aviemore (Inverness).—Wallace, T.
 Avon Gorge (Gloucester).—Morgan, C. Ll.
 Avzian (Orenburg).—Krasnopolski, A.
 Axis. *See* Crystals, Earth, &c.
 Axophyllum.—Beede, J. W.
 Axoseris.—Oppenheim, P.; Rowley, R.
 Ayrshire.—Craig, R.; Smith, J.
 Bača Valley (Goritz).—Kossmat, F.
 Bachergebirge (Styria).—Dreger, J.
 Bacillus.—Kaunhowen, F.; Renault, B.
 Bacteria, coal.—Renault, B.
 Bactridium.—Neviani, A.
 Bactrites.—Clarke, J. M.
 Baculites.—Imkeller, H.
 Baden (Germany).—Bonney, T. G.; Græff, —; Sauer, A.; Schalch, F.
 — (—) Geological Survey.—Dittrich, M.; Eck, H. [geol. lit.]; Erdmannsdorffer, O. H.; Gruss, K.; Salomon, W.; Schalch, F.; Thuerach, H.
 Baffin Land (Canada).—Bell, R.; Low, A. P.
 Bafineaux (Seine-et-Oise).—Janet, L.
 Bagshot Sand, London Basin.—Whitaker, W.
 Baiera.—Dun, W. S.; Lomas, J.; Procházka, V. J.; Seward, A. C.; Ward, L. F., &c.
 Baikal, Lake (Siberia).—Ochsenius, C.
 Bairdia.—Egger, J. G.; Namias, I.
 Bajocian.—Brasil, L.; Buckman, S. S.; Greppin, E.
 Bakal (Orenburg).—Krasnopolski, A.; Samoilov, J.
 Bakewellia.—Frech, F.
 Balæna.—Del Prato, A.
 Balanophyllia.—Angelis d'Ossat, G. de; Clark, W. B., &c.; Vaughan, T. W.
 Balatonites.—Diener, C.; Tommasi, A.
 Balia-Maden (Asia Minor).—Berg, G.
 Balingen (Württ.).—Waidelich, —.
 Balkan Peninsula.—Montessus-de-Ballore, F. de; Penck, A.
 Ballabio (Lombardy).—Artini, E.
 Ballarat (Vict.).—Richard, T. A.
 Ballerbach (Hesse).—Kayser, E.
 Baltic Drift.—Bonney, T. G., &c.
 —, Ladoga Isthmus.—Lamanski, V. V.
 —, Post-glacial.—Holst, N. O.
 —, Silurian.—Guerich, G.; Lamanski, V. V.
 —. *See also* Pomerania, &c.
 Baluchistan (India).—Griesbach, C. L.; Vredenburgh, E.
 Bannakite.—Læwinson-Lessing, F.
 Baranya (Hungary).—Beckh, J.
 Barbados (W. I.).—Spencer, J. W.
 Bardoc (W. Austral.).—Blatchford, T.
 Barhylite.—Dunstan, B.
 Bari (Puglie).—Virgilio, F.
 'Barisal Guns.'—Oldham, R. D.
 Barite-veins, S. Scotland.—Smith, J.
 Barmouth (Merioneth).—Cornish, V.
 Barnsley coal at South Carr.—Wilson, A., &c.
 Barrandella.—Grabau, A. W., &c.
 Barton (Hants).—Woodward, H.
 Bartonian, Montpellier.—Rouville, — de.
 Barysmilia.—Oppenheim, P.

- Barytes.—Carless, P.; Delkeskamp, R.; Elgren, J. E.; Franco, P.; Hugi, E.; Parker, E. W.; Rogers, A. F.
Barytherium.—Andrews, C. W.
 Basalt, Abyssinia.—Gubert, P.
 —, Alaska.—Spurr, J. E.
 —, Baden.—Guss, K.
 —, Bohemia.—Hinterlechner, K.
 —, contact.—Bauer, M.; Busz, K.; Schwantke, A.
 —, Lisbon. — Berkeley-Cotter, J. C.
 —, Madagascar, White Nile, & Sweden.—Prior, G. T.
 —, Malvern.—Groom, T. T.
 —, Sicily.—Rosali, A.
 —, Siebengebirge.—Laspeyres, H.
 —, 'sunburnt' (pitted).—Leppla, A.
 —, tree-cast in.—Walcott, R. H.
 —, Venetia.—Dal Lago, D.
 Bascom, F.—Læwinson-Lessing, F.
 Basel (Switzerland).—Greppin, E.; Huene, F. von; Leuthardt, F.; Struëbin, K.
 Basilicata (Italy).—Capeder, G.; Prever, P.
Basilissa.—Nøtling, F.
 Bastogne (Belgian Luxemburg).—Raisin, C. A.
Batanus.—Nøtling, F.
 Bathonian, Berry (France).—Cossmann, M.
 —, Normandy.—Bigot, A.
 —. See also Jurassic.
Bathypora.—Canu, F.
Bathysiphon.—Egger, J. G.
Batostoma.—Sardeson, F. W.
 Baudour (Hainault).—Rutot, A.
 Bauges (Savoy).—Lugeon, M.; Fournier, S.
 Bautzen (Saxony).—Bayer, O.
 Bauxite.—Day, D. T.; Jaquet, J. B.; Salmojraghi, F.; Watson, T. L.
 Bavaria.—Branco, W., &c.; Egger, J. G.; Hess von Wichdorff, H.; Imkeller, H.; Koken, E.; Muegge, O.; Penck, A., &c.; Plieninger, F.; Regelmann, L.; Rothpletz, A.; Thuerach, H.
 Bavenite.—Artini, E.
 Baveno (Piedmont).—Artini, E.
Bayania.—Oppenheim, P.
 Beaches, Cumberland. — Oldham, R. D.
 —, Glamorgan.—Tiddeman, R. H.
 —, Medina Sandstone.—Fairchild, H. L.
 —. See also Raised Beaches, &c.
Beania.—Seward, A. C.
 Bear I. (Arctic).—Andersson, J. G.; Nathorst, A. G.
 Bechilite.—Achiardi, G. d'.
 Bedford Limestone, Ohio.—Cummings, E. R.; Siebenthal, C. E.
 Bedfordshire.—Davies, A. M.
 Beerfelden (Hesse).—Klemm, G.
 Beernem (Flanders).—Van den Broeck, E.; Vanhove, D.
Belemnites.—Bettoni, A.; Cossmann, M., &c.; Guerich, G.; Logan, W. N.; Loriol, P. de; Pavlov, A.
 Belgian Antarctic Expedition.—Arctowski, H., &c.
 —, Ardennes.—Raisin, C. A.
 Belgium, black marble.—Malaise, C.
 —, coalfields. See Coalfields.
 —, coast-deposits.—Gilson, G.
 —, geological work in 1900.—Mourlon, M.
 —, Quaternary seas. — Van Mierlo, C. J.
 —, underlying older rocks.—Van Ertborn, Baron O.
 —, Wealden flora.—Seward, A. C.
 —. See also Liège, Quaternary, &c.
Belinurus.—Cole, G. A. J.
Bella.—Cossmann, M., &c.
 Belledonne massif (Dauphiné). — Termier, P.
 Belle-Etoile (Britanny).—Lebesconte, P.
 Bellegarde (Loiret).—Douxami, H.
Bellerophon.—Angelis d'Ossat, G. de; Fliegel, G.; Frech, F., &c.; Kindle, E. M.; Reed, F. R. C.
Bellerophon-limestone.—Diener, C.
 Belluno (Venetia).—Piaz, G. dal.
Beloceras.—Clarke, J. M.
 Beloretzk (Orenburg).—Krasnopol'ski, A.
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 Belugyte.—Spurr, J. E.
 Belvoir Hills (Leicester).—Percy, R. F.
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 Bergen (Norway).—Bjerlykke, K. O.; Rekstad, J.
 Berkshire.—Monckton, H. W.; Whitaker, W.; White, H. J. O.
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 Bilin (Bohemia).—Laube, G. C.
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 Bilzingsleben (Saxony).—Wuest, E.
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 Birds, extinct.—Traquair, R. H.
 Bi-refrarence, crystals.—Buttgenbach, H.; Joly, J.
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 —, U.S.A.—Parker, E. W.
 —. See also Asphalt, &c.
 Bituminous coal changed to anthracite.—Lakes, A.
 Blackband ironstones, Staffordshire.—Cadman, J.
 Black Hills (Dakota).—Chance, H. M.
 Black Reef (Witwatersrand).—Wilkinson, W. F.
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 Boracic acid, Tuscany.—Achiardi, G. d'.
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 Borgo (Tyrol).—Trener, G. B.
 Borings, Australia (S.).—Tate, R.
 —, — (W.).—Blatchford, T.
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 —, Lorraine.—Cavallier, C., &c.
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 —, Moravia.—Tietze, E.
 —, Natal.—Gray, C. J.
 —, New Zealand.—Tattley, W.
 —, Prussia.—Jentsch, A.; Klautzsch, A.
 —, Rajputana.—Clarke, R. W.
 —, Silesia.—Potonie, H.; Zimmermann, E.
 —, Transvaal.—Chalmers, J. A.
 —, Victorian Mines Dep.—Hunter, S.
 —. See also Artesian wells.

- Borneo.—Gascuel, —.
Bornia.—Dall, W. H.
 Bornite.—Collins, H. F.; Schröder van der Kolk, J. L. C.
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Borsonia.—Cossmann, M.; Oppenheim, P.
 Boryslav (Galicia).—Seiffert, —.
Bos.—Nehring, A.
 Bosnia. — Bittner, A.; Grimmer, J.; Katzer, F.
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 Bostonite.—Wright, F. E.
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 Bothnia, Gulf of.—Hollender, A.; Holst, N. O.
Bothriolepis.—Prosser, C. S.
Bothrodendron. — Nathorst, A. G.; Vaffier, A.
Botryodictya.—Hall, J., &c.
 Bouble coalfield (Nivernais).—Anglès-Dauriac, —.
 Boulay Bay (Jersey).—Parkinson, J.
 Boulder Co. (Colo.).—Owen, F.
 Boulder-clay, Bradford. — Monckman, J.
 —, Scarborough landslips. — Monckton, H. W.
 —, London Basin.—Whitaker, W.
 Boulders, Lanarkshire.—Smith, J.
 —, Moray district.—Mackie, W.
 —, Yorkshire.—Stather, J. W.
 —. See also Glacial deposits.
 Boulonnais (France). — Gosselet, J.; Pavlov, A. V.; Rigaux, E.; Schloesing, T., jun.
 Bourges (Berry).—Dollfus, G. F.
Bourgueticrinus.—Oppenheim, P.
Bournonia.—Parona, C. F.
 Bournonite.—Baumhauer, H.
 Bowenite.—McMahon, C. A.
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 —, Carboniferous. — Beede, J. W.; Elliot, G. F. S., &c.; Fliegel, G.; Frech, F., &c.; Nathorst, A. G.; Rowley, R. R.; Schellwien, E.
 —, Cretaceous.—Schnarrenberger, C.
 —, Devonian. — Benshausen, L.; Frech, F., &c.; Girty, G. H.; Grabau, A. W.; Guerich, G.; Kindle, E. M.; Peetz, H. von; Whidborne, G. F.
 —, Jurassic.—Buckman, S. S.; Chofat, P.; Cossmann, M., &c.; Greppin, E.; Kitchin, F. L.; Loriol, P. de.
 —, Permian.—Frech, F.
 —, Quaternary.—Knipovitch, N.
 —, Silurian.—Björlykke, K. O.; Cumming, E. R.; Dennis, D. W.; Grabau, A. W.; Martelli, A.; Williams, H. S.
 Brachiopoda, Tertiary.—Bonarelli, G.; Clark, W. B., &c.; Dollfus, G., &c.; Oppenheim, P.; Procházka, V. J.
 —, Triassic.—Tommasi, A.
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Brachyphyllum. — Knowlton, F. H.; Seward, A. C.; Ward, L. F., &c.
 Bracquagnies (Hainault).—Cornet, J.
 Bradford (Yorks).—Jowett, A., &c.; Monckman, J.; Wilson, J. E.
Bradytherium.—Andrews, C. W.
Brancoeceras.—Foord, A. H.
 Brandenburg (Prussia).—Michael, R.; Weissermel, W.
 Bravetta (Rome).—Clerici, E.
 Bray, Pays de (France).—Mercey, N. de; Munier-Chalmas, —.
 Brazil.—Birkimbine, J.; Bodenbender, G.; Borchert, A.; Branner, J. C.; Church, G. E.; Derby, O. A.; Katzer, F.; Kerner, F. von; Scott, H. K.; Steinmann, G.; Wright, F. E.
 Breccias, Ireland.—Kilroe, J. E., &c.
 —, Scotland.—Dakyns, J. R.
 Brecknockshire (Wales).—Rutley, F.
 Brée (Belgian Limburg).—Mourlon, M.
 Breislakite.—Zambonini, F.
 Brescia (Lombardy). — Bettoni, A.; Cacciamali, G. B.
Bresciphyllum.—Fritsch, A., &c.
 Breton, la Fosse du Cap.—Lobley, J. L.
 Briansk (Orel).—Rippas, P.
 BRIART, A.—Cornet, J.; Malaise, C.
 Brie (Lorraine).—Rolland, G.
 Brightling (Sussex).—Dawson, C.
 Brighton (Mass.).—Burr, H. T.
 Brioverian.—Bezier, T.; Lebesconte, P.
Brissopsis.—Oppenheim, P.
 Bristol (Somerset). — McMurtrie, J.; Parsons, J.; Sollas, I. B. J.; Wickes, W. H.; Woodward, H. B.
 Brittany (France).—Anon., 45; Barrois, C.; Bézier, T.; Credner, H.; Kerforne, F.; Lebesconte, P.; Ehler, D. P.; Picquenard, C.; Shunes, J.
 British Association, Bradford.—Watts, W.
 —, Glasgow.—Anon., 40; Horne, J.
 —, Nottingham.—Gill, —.
 —, coast-weathering.—Whitaker, W.
 —, earthquakes. See Earthquakes.
 —, extinct non-marine quaternary mollusca.—Newton, R. B.
 —, ice-sheet nomenclature.—Bonney, T. G.; Lamplugh, G. W.
 —, Isles, Pendleside Group.—Hind, W., &c.
 —, submerged terraces.—Hudleston, W. H.; Hull, E.
 —. See England, &c.
 —, minerals.—Holmes, W. M.
 —, Museum. See Museums.
 —, strata, correlation-tables.—Hobson, B.; Woodward, H., &c.
 British Columbia. — Corless, C. V.; Eissler, M.; Kendall, J. D.; McBride, R.; McEvoy, J.; Parkinson, J.; Sandeman, J. J.; Watson, R. L.

- British Guiana.—Harrison, J. B.; Perkins, H. I.; Powell, J. H.
 Brochantite.—Zambonini, F.
 Broken Hill (N.S.W.).—Moulden, J. C.; Spencer, L. J.
Bronteus.—Grabau, A. W., &c.; Lindström, G.; Peetz, H. von.
 Brookite.—Busz, K.; Koenigsberger, J.
 Brookline (Mass.).—Burr, H. T.
 Brough (Yorks).—Sheppard, T.
 BROWN, W. L.—Brown, T.
 Brown-coal, Basel.—Leuthardt, F.
 —, Bohemia.—Menzel, P.; Stirling, J.
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 —, Germany.—Stirling, J.
 —, Greece.—Zengelis, C.
 —. *See also* Lignite.
 Brozzo (Piedmont).—Novarese, V.
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 Bruges (Flanders).—Vanhove, D.; Rutot, A.
 Brunn (Moravia).—Suess, F. E.
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 Brushite.—Klein, C.
 Brushy Mt. (Tenn.).—Evans, A. W.
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 — water-supply.—Putzeys, E.
 — Exhibition, 1897.—Rutot, A.; Van den Broeck, E.
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 Brusson (Piedmont).—Preiswerk, H.
 Brůx (Bohemia).—Trenkler, H.; Simoens, G.
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 Bryozoa, Carboniferous.—Angelis d'Ossat, G. de; Beede, J. W.; Elliot, G. F. S., &c.
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 — Hump (Idaho).—Doubleday, D. G.
 Building-stones, Belgium.—Rabczé, —; Van den Broeck, E.
 —, Colorado.—Lakes, A.
 —, England & Norway.—Elsden, J. V.
 —, frost &c.—Losseau, L.
 —, heat-tests.—Van Bogaert, C.
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 —, Mysore.—Foote, R. B.
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Callocystites.—Grabau, A. W., &c.
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 —, Sweden.—Moberg, J. C.
 —, Sylt I. drift.—Stolley, E.
 —, tracks in.—Cole, G. A. J.
 —, Pre.—*See* Pre-Cambrian, &c.
 Cambridgeshire.—Wedd, C. B.
 Cambro-Silurian, Pennsylvanian limonite.—Hopkins, T. C.
 Camel, Algerian Quaternary.—Pallary, P.
 —, Samos Miocene.—Major, C. I. F.
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 Cameroons (W. Africa).—Esch, E.
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 Camino, Cima di (Lombardy).—Mariani, E.
 Campania (Italy).—Anon., 46; Bellini, R.; Espin, T. E.; Franco, P.; Geikie, Sir A.; Matteucci, R. V.; Pampaloni, L.; Riva, C.; Sabbatini, V.
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 Campiglia Marittima (Tuscany).—Ber-geat, A.; Lotti, B.
 Campine (Belgium) & Campinian. — Lorié, J.; Moulon, M.
Campophyllum.—Beede, J. W.
Camptonectes.—Logan, W. N.
 Camptonite.—Groom, T. T.; Romberg, J.
 Canada.—Ami, H. M.; Dawson, Sir J. W.
 — (E.).—Coleman, A. P.; Ells, R. W.; Penhallow, D. P.
 —, — survey. *See* Surveys.
 —, lake-basins.—Parkinson, J.
 —, metamorphic formations.—Hershey, O. H.
 — (N.W.).—Bell, R.; Dall, W. H., &c.; Dawson, G. M.; Dowling, D. B.; Ells, R. W.; Hershey, O. H.; Hoffmann, G. C., &c.; Ingall, E. D.; Lobel, L. de; Low, A. P.; Mather, A.; McEvoy, J.; Tyrrell, J. B.
 — (—). *See* Klondyke, Yukon, &c.
 —, Palæozoic.—Ami, H. M.; Matthew, G. F.
 —, physiography.—Daly, R. A.
 —, Rocky Mts.—Dawson, G. M.
 —, Royal Society.—Ami, H. M.
 —. *See also* America (N.), Copper, Silurian, &c.
Canadocystis.—Jækel, O.
 Canary Is.—Simony, O.
Canavaria.—Bettoni, A.
Cancellaria.—Clark, W. B., &c.; Nœtling, F.
Cancer.—Nœtling, F.; Pilsbry, H. A.
 Cannel coal.—Renault, B.
 Cañon, Colorado Grand.—Davis, W. M.
 — cutting.—Merriam, J. C.
 Canonica (Lombardy).—Achiardi, G. d'.

- Cantal (Auvergne).—Biélawski, J. B. M.
Cantharus.—Sangiorgi, D.
 Cape Breton (Canada).—Matthew, G. F.;
 Poole, H. S.
 Cape Colony.—Bonney, T. G.; Corstorphine, G. S.; Egglesstone, W. M.; Eissler, M.; Jones, T. R.; Penning, W. H.
Capreolus.—Venukov, P. N.
Caprina.—Paquier, V.
Caprimula.—Douvillé, H.
Caprotina.—Parona, C. F.
Capulus.—Kindle, E. M.; Whidborne, G. F.
Carabites, *Carabus*.—Scudder, S. H.
 Caracoles (Chile).—Labastie, E.
 Caradoc (Aude).—Bresson, —.
 Carbonate of iron, Normandy.—Pralon, L.
 Carbonates, geology of.—Squire, I.
Carbonia.—Fritsch, A.
 Carboniferous, American schematic standard.—Keyes, C. R.
 —, Anglesey.—Morton, G. H.
 —, Arkansas.—Branner, J. C.
 —, Asia (E. & S.).—Fliegel, G.
 —, Belgium.—Destèze, P.; Dorlodot, H. de; Fourmarier, P.; Rutot, A.; Stainier, X.
 —, Berwickshire.—Kidston, R.
 —, British.—Foord, A. H.; Hind, W., &c.
 —, Canada.—Ami, H. M.
 —, Carnic Alps.—Schellwien, E.
 —, Cheshire.—Strahan, A.
 —, China.—Drake, N. F.; Fliegel, G.; Leprince-Ringuet, F.; Zeiller, R.
 —, Dalmatia.—Bukowski, G.
 —, Denbighshire & Notts.—Gibson, W.
 —, Durham.—Steavenson, A. L.
 —, Edinburgh & Fife.—Kirkby, J. W.
 —, fire-clays.—Hopkins, T. C.
 —, France.—Anglès-Dauriac, —; Bergeron, J.; Caralp, J.; Vaffier, A.
 —, French Sahara.—Ficheur, E.
 —, Gloucestershire.—Bate, D. M. A.
 —, Iowa.—Keyes, C. R.
 —, Ireland.—Foord, A. H.
 —, Kansas.—Beede, J. W., &c.
 —, Limestone. *See* Limestones.
 —, conglomerate pebbles. — Barnes, J., &c.
 —, Massachusetts.—Woodworth, J. B.
 —, Mississippi basin.—Keyes, C. R.
 —, Missouri.—Weller, S.
 —, Oklahoma.—Adams, G. I.
 —, Pennsylvania.—White, D.
 —, Persia.—Frech, F., &c.
 —, Russia.—Rippas, P.; Yakovlev, N.
 —, Scotland.—Dron, R. W.; Elliot, G. F. S., &c.
 —, Shropshire.—Clarke, W. J.
 —, Siberia.—Jones, T. R.
 —, Staffordshire.—Cadman, J.; Gibson, W.; Stobbs, J. T.
 —, Sumatra.—Fliegel, G.
 Carboniferous, Yorkshire.—Ashley, T. Hind, W., &c.; Kidston, R.; Wellburn, E. D.
 —, Wales (S.).—Allen, H. A.
 —. *See also* Coal, &c.
Carcharias.—Nœtling, F.
Carcharodon.—Clark, W. B., &c.; Nœtling, F.; Seguenza, L.; Storms, R.; Trabucco, G.
 Cárdenas (Cuba).—Peckham, H. E., &c.
Cardinia.—Logan, W. N.; Peach, B. N., &c.
Cardiocarpon.—White, D.
Cardiocarpus.—Gresley, W. S.
Cardioceras.—Loriol, P. de.
Cardiomorpha.—Beede, J. W.
Cardiopteris.—Vaffier, A.
Cardita.—Dall, W. H.; Nœtling, F.; Oppenheim, P.; Steumann, G.
Carditella.—Pritchard, G. B.
Cardium.—Blanckenhorn, M.; Checchia, G.; Cossmann, M.; Dall, W. H.; Inkeller, H.; Nœtling, F.; Oppenheim, P.; Peach, B. N., &c.; Procházka, V. J.; Radde, G.
Caricella.—Clark, W. B., &c.
 Carinthia (Austria).—Geyer, G.; Schellwien, E.
 Carlat (Auvergne).—Puech, C.
 Carnallite.—Buecking, H.
 Carnic Alps. *See* Alps.
 Carniola (Austria).—Seidl, F.
 Carolina (N.).—Lakes, A.; Pratt, J. H.; Weed, W. H.
 — (S.).—Lakes, A.
Caroloameghinia, *Carolodarwinia*, *Carolozittelina*.—Ameghino, F.
 Carpathian Mts.—Limanowski, M.; Martonne, E. de; Rzehak, A.; Uhlig, V.; Vogt, F. W.; Windakiewicz, E.
 — Sandstone micro-fauna.—Grzybovski, J.
Carpenteria.—Chapman, F.
Carpenteroblastus.—Rowley, R. R.
Carpiliopsis.—Woodward, H.
Carpinus.—Guébbard, A., &c.
 Carpoidea.—Jäkel, O.
Carpolithes.—Fritsch, A., &c.; Guébbard, A., &c.
Carpolithus.—Clark, W. B., &c.; Ward, L. F., &c.
Carpophilus.—Scudder, S. H.
Carposphæra.—Neviani, A.
 Carr (Lincolnshire).—Wilson, A.
 Carrara (Tuscany).—Adams, F. D.
 Carterville (Ga.).—Hayes, C. W.
 Carthaus (W. Prussia).—Kuehn, B.
 Carvalhal (Portugal).—Delgado, J. F. N.
Carychium.—Wuest, E.
Caryocrinus.—Grabau, A. W., &c.
Caryophyllia.—Angelis d'Ossat, G. de; Vaughan, T. W.
Caryosphæra.—Issel, A.
 Casal Brunori (Rome).—Zambonini, F.
 Casanna Valley (Grisons).—Duparc, L.
 Cascade Mts. (Washington).—Russell, I. C.
 Casentino (Tuscany).—Trabucco, G.

- Caserta (Campania).—Franco, P.
Cassidulina.—Fornasini, C.
 Cassine (Acqui).—Colomba, L.
Cassine.—Nöetling, F.
Castalia.—Knowlton, F. H.
 CASTELNAU'S publication-dates.—Sherborn, C. D., &c.
 Castelnovo (Emilia).—Del Bue, G.
 Castle Irwell (Lancs).—Dickinson, J.
 Castleton (Derby).—Barnes, J., &c.
Castoroides.—Moore, J.
 Catalonia (Spain).—Hupfeld, F.
Catenotoma.—Cossmann, M.
 Catini, Monte (Tuscany).—Norden-skjeld, A. E. vop.
Catopygus.—Loriol, P. de.
 Cattarangus Co. (N.Y.).—Bishop, I. P.
 Caucasus (Russia).—Frech, F., &c.; Sioma, J.
 — Museum, Tiflis.—Radde, G.
Caulinites.—Squinabol, S.
Caulopteris.—Kidston, R.
 'Causses' district (S. France).—Martel, E. A.
Cavaria.—Clark, W. B., &c.
 Caverns & caves, Aisne.—Boursault, H.
 —, Australia (W.).—May, C. E.
 —, Colorado.—Cragin, F. W.; Lakes, A.
 —, crystal.—Königsberger, J.
 —, Dordogne (pictures in).—Capitan, L., &c.; Rivière, E.
 —, Durness.—Hepburn, D.
 —, Fiji.—Sawyer, B., &c.
 —, Forest of Dean bone.—Bate, D. M. A.; Owen, Sir R.
 —, formation of.—Flamache, A.; Lang, O.; Rahir, E., &c.; Stainier, X.; Van den Broeck, E.
 —, Hautes-Pyrénées.—Regnault, F., &c.
 —, Indiana.—Elrod, M. N.
 —, Keish Caves.—Scharff, R. F.
 —, Kentucky & Missouri.—Eigennann, C. H.
 —, Namur.—Rahir, E.; Van den Broeck, E.
 —, New Zealand.—McLeod, H. N.
 —, nitrate-deposits.—Nichols, H. W.
 —, Patagonia.—Nordenskjöld, E.
 —, Phlegrean Fields.—Bellini, R.
 —, Portugal.—Delgado, J. F. N.
 —, Provence.—Hamy, E. T.
 —, Raubsville.—Lyman, B. S.
 —, recent work on.—Martel, E. A.
 —, Somerset.—Bolton, H.
 —, Texas guano.—Phillips, W. B.
 —, Turin.—Roccati, A.
 —, Yonne.—Couppey de la Forest, M. de.; Parat, A.
 —, Yorkshire.—Branson, F. W., &c.; Carter, W. L.; Cuttriss, S. W.; Dwerryhouse, A. R.; Kendall, P. F.
Cavia.—Tims, H. W. M.
 Caviidae, teeth of Tertiary.—Tims, H. W. M.
 Cayuga Lake (N.Y.).—Nevius, J. N.; Watson, T. L.
Cayuga.—Lambe, L. M.
Cebochærus.—Gaudry, A.; Stehlin, H. G.
 Celebes (D.E.I.).—Buecking, H.; Sarasin, P., &c.
 Celestite.—Chester, A. H.; Popov, S. P.; Rogers, A. F.
Cellaria.—Maplestone, C. M.
 Cellular-limestone, Permian.—Abbott, G.
Celtites.—Reis, O. M.
 Cement, Darmstadt.—Kunze, R.
 —, New Jersey.—Kuemmel, H. B.
 — stone, Württemberg.—Fraas, E.; Leube, —.
Cenellipsis & *Cenosphaera*.—Neviani, A.
 Ceniz Mt. tunnel.—Fox, F.
 Cenomanian, English.—Dollfus, G. F. (See also Chalk, &c.)
Centronella.—Kindle, E. M.
Cephalaspis.—Woodward, A. S.
 Cephalonia (Greece).—Coomaraswamy, A. K.
 Cephalopoda, Carboniferous.—Barnes, J., &c.; Collot, —; Elliot, G. F. S., &c.; Frech, F., &c.; Foord, A. H.; Smith, J. P., &c.
 —, Cretaceous.—Crick, G. C.; Imkeller, H.; Pavlov, A. V.; Radde, G.; Vincent, E.
 —, Devonian.—Clarke, J. M.; Crick, G. C.; Frech, F., &c.; Kindle, E. M.; Peetz, H. von.
 —, Jurassic.—Bettoni, A.; Campana, D. del; Canavari, M.; Cossmann, M., &c.; Fucini, A.; Guerich, G.; Logan, W. N.; Loriol, P. de; Nathorst, A. G.; Peach, B. N.; Rothpletz, A.; Strüebin, K.
 —, Permian.—Diener, C.; Frech, F.; Krafft, A. von.
 —, recent & fossil.—Schwarz, E. H. L.
 —, Silurian.—Clarke, J. M.; Grabau, A. W., &c.
 —, Siluro-Devonian.—Angelis d'Ossat, G. de.
 —, Tertiary.—Clark, W. B., &c.; Cossmann, M.; Oppenheim, P.; Vincent, E.
 —, Triassic.—Krafft, A. von; Philipp, E.; Reis, O. M.; Tommasi, A.; Tornquist, A.
Cephalotaxites.—Menzel, P.
Cephalotaxopsis.—Ward, L. F., &c.
Ceramopora.—Grabau, A. W., &c.
Ceratella.—Vinassa de Regny, P. E.
Ceratites.—Nöetling, F.; Phillips, E. Reis, O. M.; Tornquist, A.
 — beds, Salt-Range.—Nöetling, F.
Ceratocaris.—Grabau, A. W., &c.
Ceratocystis.—Jäkel, O.
Ceratodictya.—Hall, J., &c.
Ceratolichas.—Guerich, G.
Ceratomya.—Cossmann, M., &c.
Ceratopyge.—Bjærllykke, K. O.
Ceratostrobilus.—Fritsch, A.
Ceratotrochus.—Angelis d'Ossat, G. de Nöetling, F.
Cercospora.—Fritsch, A.

- Ceriocrinus*.—Beede, J. W.
Cerriopora.—Clark, W. B., &c.
Cerithiella.—Cossmann, M.
Cerithium.—Lorenz, T.; Loriol, P. de; Oppenheim, P.; Peach, B. N., &c.; Procházka, V. J.; Radovanović, S.; Schnarrenberger, C.
Ceromya.—Lorenz, T.
Cervantite.—Pelloux, A.
Cervus.—Rörig, A.; Wuest, E.
Cetacea, Quaternary.—Sheppard, T.
 —, Tertiary.—Abel, O.; Beadnell, H. J. L.; Del Prato, A.
Cevljanović (Bosnia).—Bittner, A.
Ceylon.—Blanford, W. T.; Gardiner, J. S.; Meunier, St.; Parkinson, J.; Vorobiev, V. I.; Weinschenk, E.
Chabazite.—Patton, H. B.
Chenocardiola.—Hind, W.
Chenomya.—Beede, J. W.
Chalcedony.—Matthew, G. F.
Chalcopyrite.—Winchell, A. N.
Chalk, Ammonites, &c. See Ammonites, &c.
 —, Anglo-French.—Coupey de la Forest, M. le; Rowe, A. W.
 —, Belgium.—Forir, H.
 —, Bohemia.—Fritsch, A., &c.; Petrascheck, W.
 —, Ciply.—Lambert, J.
 —, Denmark.—Schwantke, A.
 —, Dorset.—Rowe, A. W.
 —, Downs.—Bird, C.
 —, Essex.—Thresh, J. C.
 —, Norwich.—Woodward, H.
 —, flints.—Rutot, A.
 —, France.—Coupey de la Forest, M. le; Gosselet, J.
 —, Kent.—Rowe, A. W.
 —, London Basin.—Whitaker, W.
 —, plateau implements.—Dorsetshire, R. D.
 —, Prussia (E.).—Gagel, C.
 —, Sussex.—Johnson, J. P.
 —, Transylvania.—Nopcsa, F., Jun.
 —, waters.—Fisher, W. W.
 —, zones.—Woodward, H. B.
Chalk-marl, Bavaria.—Egger, J. G.
 'Challenger' Expedition.—Cole, G. W.
Chalybite.—Pavlov, L.
Chama.—Meli, R.; Oppenheim, P.; Procházka, V. J.
Chamaecyparites.—Fritsch, A., &c.
Chambéry (Savoy).—Révil, J.
Chanoides.—Woodward, A. S.
Characodoma.—Maplestone, C. M.
Charente (France).—Raulin, V.
Charleroi coalfield (Hainault).—Stainier, X.
Charleston (S. Car.).—Harbø, E.
Charlton (Kent).—Holmes, T. V., &c.; Van Ysendyck, P.
Charnockite.—Holland, T. H.
Charnwood Forest (Leicester).—Watts, W. W.
Chartosomus.—Woodward, A. S.
Chartreuse massif (Dauphiné).—Révil, J.
Chase-End Hill (Malverns).—Moore, H. C.
Chasmops.—Bjærlykke, K. O.; Jækel, O.
Châteaubriant (Loire-Inférieure).—Ehlert, D. P.
Châteauneuf-du-Rhône (Provence).—Péquier, V.
Chatham I. (N.Z.).—Dieseldorff, A.
Chauliognathus.—Scudder, S. H.
Chaussairie R. (Britanny).—Lebesconte, P.
Cheam (Surrey).—Stebbing, W. P. D.
Cheirolepis.—Seward, A. C.; Ward, L. F., &c.
Cheirotherium.—Beasley, H. C.
Cheirurus.—Jækel, O.; Lindstrøm, G.
Chele Limestone, Greece.—Cayeux, L., &c.
Chelidosaurus.—Fritsch, A.
Chelonia, Tertiary.—Andrews, C. W.; Portis, A.; Reinach, Baron A. von.
Chelydra.—Reinach, Baron A. von.
Chemnitzia.—Bettoni, A.; Procházka, V. J.
Chemung formation, New York.—Prosser, C. S.
Cher (France).—Dollfus, G. F.; Grossouvre, A. de.
Chert, Derbyshire.—Greenwell, A.
 —, radiolarian.—Smith, J.
Cheshire.—Beasley, H. C.; Clarke, W. J.; Strahan, A.; Ward, T.
Chesiot Hills (Northumberland).—Kendall, P. F., &c.; Kynaston, H.
Chiemgau Alps (Bavaria).—Plieninger, F.
Chile (S. Am.).—Albert, F.; Avalos, C. G.; Barber, G. M.; Church, G. E.; Eissler, M.; Labastie, E.; Murdoch, J. A. W.; Varas, I.
Chilian-Argentine Andes.—Burckhardt, C.; Rabot, C.
Chi Li (China).—Drake, N. F.; Hoover, H. C.; Leprince-Ringuet, F.; Mathez, A.; Vogelsang, K.; Zeiller, R.
Chillagoe (Queensl.).—Dunstan, B.
Chilocorus.—Scudder, S. H.
Chilotrypa.—Grabau, A. W., &c.
Chimæra.—Jækel, O.
China.—Drake, N. F.; Fliegel, G.; Frech, F.; Garrison, F. L.; Hoover, H. C.; Körfer, —; Krahmer, —; Little, A.; Martelli, A.; Mathez, A.; Monod, G. H.; Murdoch, J. V. B.; Leprince-Ringuet, F.; Richthofen, Baron F. von; Suess, E.; Viglino, A.; Vogelsang, K.; Zeiller, R.
China-clay mine.—Troon-Smith, J.
Chione.—Tate, R.
Chironomites.—Fritsch, A.
Chirothrix.—Woodward, A. S.
Chiru-like antelope.—Lydekker, R.
Chirurus.—Lindstrøm, G.
Chislehurst (Kent).—Holmes, T. V.
Chiton.—Procházka, V. J.
Chlamys.—Bonarelli, G.; Viola, C.
Chlorine in moorland water.—Ackroyd, W.

- Chlorite-group.—Blasdale, W. C.; Dalmer, K.
 Chloritic Marl, Wiltshire.—Jukes-Browne, A. J., &c.
 —schists, Piedmont.—Preiswerk, H.
 Chloritoid.—Zemiatzenski, P.
 Chloromelanite.—Berwerth, F.
 Chloropal.—John, C. von.
Chæromorus & *Chærotherium*.—Stehlin, H. G.
 Chon, Loch (Perth).—Peach, B. N., &c.
 Chondrite.—Berwerth, F.; Renard, A.
Chonetes.—Beede, J. W.; Frech, F., &c.; Grabau, A. W., &c.; Kindle, E. M.; Schellwien, E.
Chonophyllum.—Grabau, A. W., &c.; Lambe, L. M.; Rowley, R. R.
 Chorrillos (Peru).—Lisson, C. I.
 Chouteau Limestone, Missouri.—Rowley, R. R.
 Christiania (Norway).—Bjerlykke, K. O.; Brægger, W. C.; Strangeland, S. E.
Chrysobothris.—Scudder, S. H.
Chrysodomus.—Clark, W. B., &c.
Chrysophrys.—Seguenza, L.; Wittich, E.
 Chuquicamata (Chile).—Avalos, C. G.
 Ciceró's villa & Monte-Nuovo eruption.—Stefani, C. de.
Cidaris.—Bettoni, A.; Loriol, P. de; Nøtling, F.; Oppenheim, P.
Cimolichthys.—Woodward, A. S.
Cinnamomum.—Guébbard, A., &c.; Deane, H.; Diller, J. S.; Knowlton, F. H.
 'Cintas,' Colombian.—Gledhill, E.
 Cibly (Hainault).—Lambert, J.
Circophyllia.—Oppenheim, P.
 Cirripede, Cretaceous.—Woodward, H.
Cissophyllum, *Cissus*.—Fritsch, A., &c.
Cladangia.—Procházka, V. J.
Cladisotheallus.—Renault, B.
Cladochonus.—Angelis d'Ossat, G. de; Beede, J. W.; Whidborne, G. F.
Cladocora.—Oppenheim, P.; Vaughan, T. W.
Cladocyclus.—Woodward, A. S.
Cladophlebis.—Arber, E. A. N.; Nathorst, A. G.; Seward, A. C.; Ward, L. F., &c.
Cladopora.—Grabau, A. W., &c.
Clamys.—Bonarelli, G.
Claraia.—Bittner, A.
 CLARKE, W. B.—Arber, E. A. N.
 Classification, rock. *See* Rocks.
Clathropora.—Grabau, A. W., &c.
Clathropteris.—Fliche, P.
Clathrosporgia.—Hall, J.
Clausilia.—Wuest, E.
Clavatula.—Nøtling, F.; Oppenheim, P.
Clavilithes.—Oppenheim, P.
Clavulina.—Egger, J. G.; Grzybovski, J.; Liebus, A.
 CLAYPOLE, E. W.—Anon., 3; Winchell, N. H.
 Clays, alumina, &c.—Vydrovski, S.
 —, Christiania.—Bjerlykke, K. O.
 Clays, fire.—Hopkins, T. C.
 —, Hungary.—Horusitzki, H.; Ebeke, K., &c.; Schafarzik, F.
 —, Kintyre.—Jessen, A.
 —, Paris Exhibition.—Ries, H.
 —, permeability.—Spring, W.
 —, sulphur-crystals in.—Erdmann, E.
 —, Vierzon.—Grossouvre, A. de.
 —, Wisconsin.—Buckley, E. R.
 —. *See also* Soils.
 Clealun (Wash.).—Smith, G. O., &c.
 Cleavage, diamond octahedral.—Sollas, W. J.
Cleiothyris.—Beede, J. W.
Clementia.—Dall, W. H.
Cleodictya.—Hall, J., &c.
Clepsydrosporgia.—Hall, J., &c.
Clepsydrops.—Case, E. C.
 Clermont (Queensland).—Dunstan, B.
 Cleveland Shales, Ohio.—Dean, B.
 Climates, geological, &c.—Anon., 41; Ekholm, N.; Harmer, F. W.; Mill, H. R.; Wright, G. F.
Clinolobus.—Frech, F.
Clinopistha.—Hind, W.; Kindle, E. M.
 Clinton Strata, reef-structures in.—Sarle, C. J.
Clisiophyllum.—Angelis d'Ossat, G. de; Lambe, L. M.
 Clitheroe (Yorks).—Tiddemann, R. H.
 Cloncurry (Queensland).—Rands, W. H.
Clupea.—Woodward, A. S.
 Clyde District (Scotland).—Elliot, G. F. S., &c.
Clymenia.—Angelis d'Ossat, G. de; Lindström, G.
Clypeaster.—Nøtling, F.; Oppenheim, P.
Cnemidiastrium.—Malfatti, P.
 Cnoc-na-Sroine (Sutherland).—Teall, J. J. H.
 Coahuila (Mexico).—Ordóñez, E.
 Coal, Alaska.—Eldridge, G. H.; Spurr, J. E.
 —, Austria-Hungary.—John, C. von, &c.
 —bacteria.—Renault, B.
 —, bituminous.—Bertrand, C. E.; Renault, B.
 —, British Columbia.—Corless, C. V.; McBride, R.; Watson, R. L.; Woodworth, J. B.
 —, Burma.—Smyth, H. W.
 —, calcite in.—Beykirch, J.
 —, Carboniferous Limestone.—Dron, R. W.
 —, chemical classification.—Seyler, C. A.
 —, China.—Drake, N. F.; Garrison, F. L.; Monod, G. H.; Leprince-Ringuet, R.; Vogelsang, K.
 —, Colorado.—Lakes, A.
 —, dolomitic change from.—Strahan, A.
 —dredging, Illinois.—Anon., 35.
 —, Dutch Limburg.—Zondevan, H.

- Coal, formation of.—Dakyns, J. R.; Grand'Eury, C.; Lemièrre, L.; Strahan, A.
 —, Great Britain.—Atkinson, J. B., &c.; Foster, C. Le N., &c.; Jeans, J. S.
 —, Harz.—Brandes, G.
 —, Hesse.—Henrich, F.
 —, India.—Griesbach, C. L.; Stonier, G. A., &c.
 —, Indiana.—Ashley, G. H.
 —, Japan.—Lyman, B. S.
 —, Kansas.—Grimsley, G. P.
 —, Kent.—Elsden, J. V.; Etheridge, R.
 —, London Basin.—Sollas, W. J.
 —, Mexico.—Anon., 25; Dumble, E. T.
 —, New Mexico.—Lakes, A.
 —, New South Wales.—Coghlan, T. A.
 —, New Zealand.—Tattley, W.
 —, Nova Scotia.—Gilpin, E., Jun.
 —, Ohio.—Prosser, C. S.
 —, Philippines.—Becker, G. F.
 —, plants. *See* Plants.
 —, Pyrenees.—Hupfeld, J.
 —, Queensland.—Dunstan, B.
 —, salt water in.—Ochsenius, C.
 —, Styria.—Redlich, K. A.
 —, Transvaal.—Pickstone, W.
 —, Transylvania.—Ebbecke, K., &c.
 —, Turkey.—English, T.
 —, United States, occurrence.—Par-ker, E. W.
 —, Virginia (W.).—White, I. C.
 —, *See also* Coalfields, Lignite, &c.
 Coalfields, Africa (S.). *See* Natal, &c.
 —, Alabama.—McCalley, H.
 —, Alsace-Lorraine.—Liebheim, E.
 —, Australia (W.).—Hine, E. W.; Maitland, A. G.
 —, Austria, Bohemia, & Germany.—Stirling, J.
 —, Bengal.—Cadell, H. M.; Griesbach, C. L.; Stonier, G. A., &c.
 —, Canada.—Barrie, J. S.; Ingall, E.
 —, Charleroi.—Stainier, X.
 —, China.—Drake, N. F.; Garrison, F. L.; Leprince-Ringuet, F.; Vogel-sang, K.
 —, Decazeville.—Bergeron, J.
 —, Durham.—Barker, J.
 —, Illinois.—Anon., 35.
 —, Iowa.—Rutledge, J. J.
 —, Loire.—Coste, E.; Grand'Eury, C.
 —, Natal.—Gray, C. J.; Heslop, W. T.; Molengraaff, G. A. F.
 —, New Zealand.—Park, J.
 —, Nièvre.—Anglès-Dauriac, —.
 —, Scottish.—Cadell, H. M.; Cairn-cross, J. M.; Dron, R. W.; Elliot, G. F. S., &c.
 —, Shropshire.—Clarke, W. J.
 —, Somerset.—McMurtrie, J.
 —, Spain.—Hupfeld, F.
 —, Staffordshire.—Cadman, J.; Gib-son, W.; Stobbs, J. T.
 Coalfields, Tennessee.—Evans, A. W.
 —, Texas.—Vaughan, T. W.
 —, Transvaal.—Anon., 26.
 —, United States seaports, &c.—Par-ker, E. W.
 —, Vancouver.—Anon., 24; Smith, A. E.; Watson, R. L.
 —, Virginia.—Fleming, R.; Wood-worth, J. B.
 —, Wales (S.).—Howells, A.
 —, Westphalia.—Mueller, G.
 —, Yorkshire.—Ashley, T.
 —, *See also* Coal.
 Coal-Measures. *See* Carboniferous.
 Coal-mining.—Galloway, R. L.
 —, outcrops.—Callett, C.; Scholz, C.
 Coast-ice.—Gregory, J. W., &c.
 Coast-weathering, British.—Sheppard, T.; Whitaker, W.
 Coastal plain, Maine recent.—McBeth, W. A.
 Cobalt.—Muegge, O.; Simpson, E. S.; Voit, F. W.
Cobitopsis.—Woodward, A. S.
 Coblenzian.—Whidborne, G. F.
 Cocanada Port (Madras).—Baxter, B.
Cocculus.—Fritsch, A., &c.
Cochiosaurus.—Fritsch, A.
Cochlecopa.—Wuest, E.
Codiopsis.—Loriol, P. de.
Colacanthus.—Reis, O. M.; Wellburn, E. D.
Coloceras.—Campana, D. del; Bettoni, A.; Fucini, A.
Colodus.—Williston, S. W., &c.
Colohelia.—Vaughan, T. W.
Coloma.—Stainier, X., &c.
Colonautilus.—Foord, A. H.
Colostylina.—Bohm, J.
Colostylops.—Ameghino, F.
Cenocyathus.—Angelis d'Ossat, G. de.
 Cogozzo, Villa (Brescia).—Cacciamali, G. B.
 Coimbatore (Madras).—Hayden, H. H.; Holland, T. H.
 Coke (natural), Mexico.—Dumble, E. T.
 Colar goldfield (India).—Garland, J.
 Coldwell Rocks (Hereford).—Moore, H. C.
Coleolus.—Kindle, E. M.
 Coleoptera, Quaternary.—Bell, A. M.
 —, Tertiary.—Scudder, S. H.
 Colle (Tuscany).—Del-Zanna, P.
 Collie coalfield (W. Austral.).—Hind, E. W.; Maitland, A. G.
Collonia.—Cossmann, M.; Oppenheim, P.
Coloceras.—Foord, A. H.
 Colombia (S. Am.).—Church, G. E.; Gledhill, F.; Owen, F.
 Colorado (U.S.A.).—Cragin, F. W.; Cross, W.; Davis, W. M.; Girty, G. H.; Jack, J. G.; Lakes, A.; Lee, W. T.; Owen, F.; Palache, C.; Patton, H. B.; Ransome, F. L.; Rickard, T. A.; Walcott, C. D., &c.; Ward, L. F.
Columbella.—Blanckenhorn, M.; Stein-mann, G.

- Columbia R. (Oregon).—Merriam, J. C.
Columnaria.—Lambe, L. M.
Columnastræa.—Oppenheim, P.
 Colwall (Hereford).—Conder, E.
 Commeny (Allier).—Stirrup, M.
 Como, Lake (N. Italy).—Bistram, A. von.
Compsognathus.—Huene, F. von.
Conchicolites.—Chapman, F.
 Conchite.—Brauns, R.; Vater, H.
 Concretions, calcareous.—Bell, W. T.;
 Bleicher, M. G.; Dathe, F.
 —, graphite.—Vernadski, W.
 —, Lower Coal-Measures.—Stocks, H. B.
 —, sand.—Matézos, C.
 —, siliceous, &c.—Hanks, H. G.
 —, *See also* Dust.
 Condroz massif (Namur).—Destinez, P.;
 Dorlodot, H. de.
 Cones, tuff-eruptions.—Bishop, S. E.
Conescharellina.—Neviani, A.
Congerina.—Radde, G.
 —beds, Lombardy.—Achiardi, G. d'.
 —, Moravia.—Rzehak, A.
 Conglomerates, Angleur.—Fourmarier,
 F.
 —, Auvergne.—Martin, D.
 —, Brittany.—Bézier, T.
 —, Carboniferous.—Barrois, C.; Des-
 sailly, —; Oldham, R. D.
 —, Christiania.—Brøgger, W. C.
 —, crushed.—Hill, J. B.
 —, Enon.—Jones, T. R.
 —, Lower Austrian.—Abel, O.
 —, Mons.—Cornet, J.
 —, Transvaal.—Welton, W. S.; Wil-
 kinson, W. F.
 —, Vienna Miocene.—Abel, O.
 Congo Free State (Africa).—Cornet, J.
 —, French (Africa).—Spire, —;
 Foureaux, F.
 Congo R. (Africa).—Choffat, P.; Cornet,
 J.; Hull, E.
 Congress, Geological, Paris (1900).—
 Adams, F. D.; Arctowski, H.; Barrois,
 C.; Becke, F.; Bertrand, C. E.; Bey-
 schlag, F.; Blanford, W. T.; Bleicher,
 M. G.; Boule, M.; Chamberlin, T. C.;
 Choffat, P.; Dannenberg, A.; Delgado,
 J. F. N., &c.; Dollfus, G. F.; Douville,
 H.; Fabre, L. A.; Fallot, E.; Fedorov,
 E. von; Fischeur, E.; Frazer, P.; Gau-
 dry, A.; Geikie, Sir A.; Gosselet, J.;
 Grand'Eury, C.; Guébard, A.; Hague,
 A.; Hudleston, W. H.; Hull, E.;
 Janet, L.; Joly, J.; Karpinski, A.;
 Kilian, W.; Kunz, G. F.; Lacroix, A.;
 Launay, L. de; Lejeune de Schiervel,
 C., &c.; Lemièrre, L.; Lœwinson-
 Lessing, F.; Lory, P.; Malaise, C.;
 Martel, E. A.; Matthew, G. F.; Meli,
 R.; Meunier, St.; Moulon, M.; Œh-
 lert, D. P.; Osborn, H. F.; Parat, A.;
 Pavlov, A. V.; Raulin, V.; Reid, H.
 F.; Renault, B.; Renevier, E.; Rich-
 ter, E.; Rolland, G.; Sabatini, V.;
 Sacco, F.; Salomon, W.; Sayn, G.;
 Scott, W. B.; Steinmann, G.; Thévenin,
 A.; Van den Broeck, E.; Vorwerk, O.;
 Walcott, C. D.; Zeiller, R.
Coniopteris, *Conites*.—Seward, A. C.
 Connecticut (U.S.A.).—Hobbs, W. H.
Conocardium.—Beede, J. W.; Fliedgel,
 G.; Hind, W.; Kindle, E. M.; Peetz,
 H. von.
Conocephalites.—Jäkel, O.
Conocoryphe.—Lindström, G.; Pom-
 peckj, J. F.
 Conodonts, Carboniferous.—Elliot, G. F.
 S., &c.
Conolichas.—Guerich, G.
Conorbis.—Oppenheim, P.
Conospermities.—Fritsch, A., &c.
Conosphæra.—Neviani, A.
 Constance, Lake of (Switzerland).—
 Baltzer, A.
 Constantine ravine (Algeria).—Souleyre,
 A.
 Contact-deposits.—Krusch, P.
 —metamorphism.—Berg, G.; Bjør-
 lykke, K. O.; Coomáraswamy, A. K.;
 Grant, U. S.; Hess von Wichdorff,
 H.; Kynaston, H.; Lacroix, A.;
 Mackie, W.; Muegge, O.; Norden-
 skjöld, O.; Pelikan, A.; Salomon,
 W.; Suess, F. E.
 Conte, J. le. *See* Le Conte, J.
 Continents, evolution of.—Murray, Sir
 J.
Conularia.—Grabau, A. W., &c.; Kin-
 dle, E. M.
Conus.—Nøtting, F.; Oppenheim, P.
 Coolgardie (W. Austral.).—Blatchford,
 T.; Campbell, W. D.; Maitland, A.
 G.
 Cooney (N. Mex.).—Weatherby, W. J.
 Cope, E. D.—Frazer, P.
 Copper, Alabama.—Weed, W. H.
 —, America (N.).—Kirchhoff, C.;
 Stevens, H. J.
 —, — (—). *See also* Michigan, &c.
 —, Arizona.—Eissler, M.
 —, arsenide.—Koenig, G. A.
 —, Asia Minor.—Berg, G.
 —, Australia (W.).—Coghlan, T. A.;
 Maitland, A. G.
 —, — (S.).—Coghlan, T. A.; Eissler,
 M.; Mennell, F. P.
 —, Austria-Hungary.—John, C. von,
 &c.
 —, British Columbia, Canada, & Cape
 Colony.—Eissler, M.
 —, Carolina (N.), Tennessee, & Vir-
 ginia.—Weed, W. H.
 —, Chile.—Avalos, C. G.; Eissler,
 M.; Murdoch, J. A. W.
 —, China.—Hoover, H. C.; Vogel-
 sang, K.
 —, Colorado.—Lakes, A.
 —, crystallization.—Baker, W. H.;
 Liversidge, A.
 —, deposition of.—Campbell, J. T.
 —, France & Tuscany.—Lotti, B.
 —, Germany.—Beck, R.; Drevermann,
 F.; Eissler, M.; Krusch, P.; Mueller,
 H.

- Copper, Lombardy.—Issel, A.
 —, Mexico.—Eissler, M.; Fitzpatrick, J. J.; McCarthy, E. T.
 —, Michigan & Montana.—Eissler, M.
 —, Namaqualand.—Chalmers, J. A.
 —, New Caledonia.—Weinberg, E. A.
 —, New Jersey.—Chester, A. H.; Kuemmel, H. B.
 —, New South Wales.—Coghlan, T. A.; Eissler, M.
 —, Philippine Is.—Becker, G. F.; Rinne, F.
 —, Portugal & Spain.—Eissler, M.
 —, pyrites.—Hintze, C.; Lewis, W. J.; Oehsenius, C.; Winchell, A. N.
 —, Queensland.—Ball, L. C.; Cameron, W. E.; Coghlan, T. A.; Dunstan, B.; Eissler, M.
 —, Russia.—Eissler, M.
 —, Servia & Siberia.—Beck, R., &c.
 —, Sweden.—Eissler, M.; Hedström, H.
 —, Tasmania.—Coghlan, T. A.; Daly, H. J.; Eissler, M.; Thureau, G.
 —, United States. *See* Michigan, &c.
 —, uranite.—Rinne, F.
 —, Victoria.—Coghlan, T. A.; Eissler, M.
 —, Wisconsin.—Grant, U. S.
 —, World.—Demaret, L.; Eissler, M.
 Copper River (Alaska).—Mendenhall, W. C.
 Coprolites, Maryland Eocene.—Clark, W. B., &c.
 Coquimbite.—Eakle, A. S.
 Coral-reefs, &c.—Gardiner, J. S.; Goodchild, J. G.; Hitchcock, C. H.; Martin, K.; Sawyer, B.; Schnee, —; Sollas, W. J.
Coralliophaga.—Clark, W. B., &c.
Corallium.—Angelis d'Ossat, G. de.
 Corals, Carboniferous.—Angelis d'Ossat, G. de; Beede, J. W.; Elliot, G. F. S., &c.; Frech, F., &c.; Rowley, R. R.
 —, Cretaceous.—Lindström, G.; Martin, K.; Vaughan, T. W.
 —, Devonian.—Flamand, G. B. M.; Frech, F., &c.; Grabau, A. W.; Lambe, L. M.; Peetz, H. von; Whidborne, G. F.
 —, Jurassic.—Lisson, C. I.; Tomes, R. F.
 —, Permo-Carboniferous.—Etheridge, R., Jun.
 —, Quaternary.—Vaughan, T. W.
 —, Silurian.—Chapman, F., &c.; Grabau, A. W., &c.; Lambe, L. M.; Sardeson, F. W.; Whitfield, R. P.
 —, Tertiary.—Angelis d'Ossat, G. de; Clark, W. B., &c.; Dennant, J.; Martin, K.; Nœtling, F.; Oppenheim, P.; Vaughan, T. W.
Corax.—Williston, S. W., &c.
Corbicula.—Kennard, A. S., &c.
 Corbières (Aude).—Bresson, —.
Corbis.—Cossmann, M., &c.
Corbula.—Clark, W. B., &c.; Dall, W. H.; Nœtling, F.; Oppenheim, P.; Steinmann, G.
Corbulipora.—Maplestone, C. M.
Cordaites.—Penhallow, D. P.; Zeiller, R.
Cordieria.—Oppenheim, P.
 Cordierite. — Buecking, H.; Gareiss, A.
Cordiocras.—Logan, W. N.
 Cordova (Brazil).—Bodenbender, G.
Coresodon.—Ameghino, F.
 Cornedo (Venetia).—Dal Lago, D.
Cornulites.—Grabau, A. W., &c.
Cornus.—Knowlton, F. H.
Cornuspira.—Egger, J. G.
 Cornwall.—Brent, F.; Fox, H.; Garland, J.; Hill, J. B.; Lowe, H. J.; Woodward, A. S.
 Comandel (N.Z.).—MacLaren, J. M.
 Corriegills (Arran).—Smith, J.
 Corsica.—Maury, E.
 Corundum.—Coomáraswamy, A. K.; Evans, J. W.; Hartley, W. N., &c.; Kunz, G. F.; Primrose, A.; Vogt, J. H. L.
 —, syenites.—Holland, T. H.
Corymbites.—Scudder, S. H.
Coscinocyathus.—Peetz, H. von.
Coscinodiscus.—Dun, W. S., &c.
Coscinopleura.—Canu, F.
 COSTA, O. G.—Fornasini, C.
 Costa Rica (C. Am.).—Sapper, C.
 Cotentin (Lr. Normandy).—Cossmann, M., &c.
 Cotham Stone, Somerset.—Parsons, J.; Wickes, W. H.; Woodward, H. B.
 Cotteswold Hills.—Buckman, S. S.
 Cottian Alps. *See* Alps.
 Coyolles (Aisne).—Boursault, H.
 Cracow (Poland).—Siemiradzki, J.
 Crag, Belgian.—Van den Broeck, E.
 Crail (Fife).—Kirkby, J. W.
Cranaea & *Craniella*.—Kindle, E. M.
 CRANE, E.—Anon., 4.
Crania.—Beede, J. W.; Kindle, E. M.
Craspedarges.—Guerich, G.
Crassatella.—Nœtling, F.; Oppenheim, P.
Crassatellites.—Clark, W. B., &c.; Dall, W. H.
Craticularia.—Malfatti, P.
 Craven (Yorks).—Dwerryhouse, A. R., &c.
Credneria.—Fritsch, A., &c.
Crenella.—Woods, H.
Creniceras.—Loriol, P. de.
Creosaurus.—Williston, S. W.
Crepidophyllum.—Lambe, L. M.
Crepidula.—Steinmann, G.
Crepis.—Canu, F.
 Cretaceous, Algeria.—Ficheur, E.
 —, Asia Minor.—Schubert, R. J.
 —, Aquitaine.—Glangeaud, P.
 —, Bavaria.—Egger, J. G.; Imkeller, H.
 —, Belgium.—Cornet, J.; Forir, H.; Van Ertborn, Baron O.

- Cretaceous, Bohemia.—Dlabáč, J.; Fritsch, A., &c.; Petrascheck, W.
 —, British.—Woods, H.
 —, Brunswick.—Koenen, A. von.
 —, Canada.—Lambe, L. M.
 —, Champagne.—Leriche, M.
 —, Colorado.—Cragin, F. W.
 —, Dauphiné.—Lory, P.
 —, Denmark.—Groenwall, K. A.
 —, Egypt.—Ball, J.
 —, England (S.).—Davies, A. M.; Dollfus, G. F.; Johnson, J. P.; Rowe, A. W., &c.; Woodward, H.
 —, France. See Languedoc, &c.
 —, Galicia.—Schubert, R. J.
 —, Hungary.—Palfy, M. von.
 —, Ionian Is.—Martelli, A.
 —, Italy.—Lotti, B.; Meli, R.; Schnarrenberger, C.; Trabucco, G.
 —, Kansas.—Gould, C. N.; Williston, S. W., &c.
 —, Languedoc.—Roman, F.; Sayn, G., &c.
 —, Lesina I.—Kornhuber, A.
 —, Madagascar.—Fliche, P.
 —, Mexico.—Douvillé, H.
 —, Nebraska.—Gould, C. N.
 —, Patagonia.—Ameghino, F.
 —, Pays de Bray.—Mercey, N. de.
 —, Persia.—Frech, F., &c.
 —, Portugal.—Choffat, P.
 —, Provence.—Cossmann, M.; Riaz, de.
 —, Prussia (N.).—Jentzsch, A.
 —, Queensland.—Dun, W. S., &c.
 —, Russia.—Borisiak, A.; Pavlov, A. V.; Reh binder, B.; Tutkovski, P.
 —, Sahara (E.).—Lapparent, A. de.
 —, Servia.—Zujović, J. M.
 —, Sicily.—Stefano, G. de.
 —, Switzerland.—Schar dt, H., &c.
 —, Texas.—Douvillé, H.
 —, Transylvania.—Nopcsa, F., Jun.; Ebbelke, K., &c.
 —, Vaucluse.—Martel, E. A.
 —, Wiltshire.—Jukes-Browne, A. J.
 —. See also Chalk, Foraminifera, &c.
 Crete (I. of).—Bonarelli, G.
Cribritina.—Canu, F.; Clark, W. B., &c.; Neviani, A.
Cricotus.—Case, E. C.
 Crimea (S. Russia).—Borisiak, A.; Hoernes, R.; Popov, S. P.
 Crinoidea, Carboniferous.—Beede, J. W.; Frech, F., &c.; Rowley, R. R.; Whitfield, R. P.
 —, Cretaceous.—Springer, F.
 —, Devonian.—Wood, E.
 —, Jurassic.—Logan, W. N.; Peach, B. N., &c.
 —, Silurian.—Bather, F. A.; Chapman, F., &c.; Grabau, A. W.
 Cripple Creek (Colo.).—Lakes, A.; Rickard, T. A.; Stevens, E. A.
Crisia.—Neviani, A.
Cristellaria.—Clark, W. B., &c.; Egger, J. G.; Schubert, R. J.
 Cristobalite.—Beckenkamp, J.
 Croatia.—Harbøe, E.; Kišpalić, M.
 Crocetta (Elba, I. of).—Manasse, E.
 Crocodiles, Jurassic.—Fraas, E.
 —, Permian.—Döderlein, L.
 —, Tertiary.—Beadnell, H. J. L.; Nøtting, F.
Crocodylus.—Nøtting, F.
 Croydon (Surrey).—Martin, E. A.; Roberts, N. F.; Whitaker, W.
 Crozon (Britanny).—Kerforne, F.
 Crush-conglomerates, Cornwall & Scotland.—Hill, J. B.
 Crustacea, Cambrian.—Beecher, C. E.; Moberg, J. C.
 —, Carboniferous.—Baldwin, W.; Elliot, G. F. S., &c.
 —, Cretaceous.—Fritsch, A.; Ortmann, A. E.; Pilsbry, H. A.; Woodward, H.
 —, Devonian.—Angelis d'Ossat, G. de; Guerich, G.; Kindle, E. M.
 —, Permian.—Fritsch, A.
 —, Silurian.—Chmielewski, C.; Elliot, G. F. S., &c.; Grabau, A. W., &c.; Guerich, G.; Moberg, J. C.
 —, Tertiary.—Clark, W. B., &c.; Nøtting, F.; Stainier, X., &c.; Woodward, H.
 —. See also Trilobites, Ostracoda, &c.
Cruziana.—Ciampi, B.
Cryphæus.—Frech, F., &c.
Cryptacanthia.—Schellwien, E.
Cryptæmia.—Bøhm, J.
Cryptocarya.—Deane, H.
Cryptodictya.—Hall, J., &c.
Cryptonella.—Kindle, E. M.; Peetz, H. von.
 Crystalline schists, Highlands.—Macnair, P.
 —. See also Schists.
 Crystallization, order of mineral.—Cunningham, J. A.
 Crystallography.—Barlow, W.; Beckenkamp, J.; Cesàro, G.; Fedorov, E. von; Goodchild, J. G.; Harker, A.; Hilton, H.; Hudson, R. W. H. T.; Kraus, E. H., &c.; Lewis, W. J.; Moses, A. J., &c.; Panebianco, R.; Schwarzm ann, M.; Smith, G. F. H.; Souza-Brandão, V. de; Viola, C.; Wallerant, F.; Wuelfing, E. A.
 —. See also Mineralogy, &c.
 Crystals, axes.—Fedorov, E. von; Souza-Brandão, V. de.
 —, coloration.—Gaubert, P.
 —, etched figures.—Solger, F.
 —, glass.—Hundeshagen, F.
 —, identifying by birefringence.—Joly, J.
 —, octahedral cleavage.—Sollas, W. J.
 —, structure.—Muegge, O.

- Crystals, symmetry.—Barlow, W.; Fedorov, E. von; Viola, C.
 —, twinning of.—Muehlhauser, A.
Ctenis.—Seward, A. C.; Ward, L. F., &c.
Ctenophyllum.—Ward, L. F., &c.
Ctenopyge.—Lindström, G.
Ctenostreon.—Philippi, E.
Ctenothrissa.—Woodward, A. S.
 Cuba (W.I.).—Birkinbine, J.; Chibas, E. J.; Peckham, H. E., &c.
Cucullæa.—Clark, W. B.; Nætling, F.; Radovanović, S.
 Culm, Great Britain.—Ussher, W. A. E.
 —, Harz.—Koch, M.
 —, Hesse.—Denckmann, A.
 —, Rhenish Prussia.—Gerhardt, K.
 —, Silesia.—Dathe, E.; Potonié, H.
 Cumberland.—Walker, W. E.
 Cuneo (Piedmont).—Roccati, A.
Cunninghamia.—Fritsch, A., &c.
Cunninghamites.—Knowlton, F. H.
Cupania.—Deane, H.
 Cuprite.—Vogt, J. H. L.
 Curaçao (D.W.I.).—Vaughan, T. W.
 Cure R. (France).—Parat, A.
 Curryville (Mo.).—Rowley, R. R.
Cussonia & *Cussoniphyllum*.—Fritsch, A., &c.
 Cutch (India).—Kitchin, F. L.
 Cyanite-quartzite.—Du Bois, G. C.
Cyathodictya.—Hall, J., &c.
Cyathomorpha.—Oppenheim, P.
Cyathopædium.—Peez, H. von.
Cyathophyllum.—Frech, F., &c.; Grabau, A. W.; Peez, H. von.
Cyathoseris.—Angelis d'Ossat, G. de; Oppenheim, P.
Cyathoxonia.—Frech, F., &c.; Lambe, L. M.
Cybele.—Lindström, G.
Cybium.—Woodward, A. S.
Cycadella.—Ward, L. F., &c.
Cycadeoidea.—Lignier, O.; Ward, L. F., &c.; Wieland, G. R.
Cycadeomyelon, *Cycadeospermum*, & *Cycadites*.—Ward, L. F., &c.
 Cycads, fossil.—Seward, A. C.
 Cyclades Is. (Greece).—Philippson, A.
Cyclactinia.—Vinassa de Regny, P. E.
Cyclammina.—Grzybowski, J.
Cyclolites.—Oppenheim, P.
Cyclolobus.—Frech, F.
Cyclonema & *Cyclorina*.—Kindle, E. M.
Cycloseris.—Oppenheim, P.
Cyclus.—Frech, F.
 Cygni stars, basic rocks &.—Suess, E.
Cylicina.—Clark, W. B., &c.
Cylindrobullina.—Bæhm, J.
Cymbalopora.—Egger, J. G.
Cymbella.—Clerici, E.
Cymindis.—Scudder, S. H.
Cyparissidium.—Fritsch, A., &c.
Cyperacites.—Knowlton, F. H.
Cyphaspis.—Gregory, J. W.; Lindström, G.
Cypræa.—Clark, W. B., &c.; Dall, W. H.; Nætling, F.
Cypricardinia.—Beede, J. W.; Frech, F., &c.
Cyrena.—Guerich, G.; Nætling, F.; Oppenheim, P.
 Cyrrillhof (Moravia).—Kovář, F., &c.
Cyrtina.—Grabau, A. W., &c.; Peez, H. von.
Cyrtocapsa.—Neviani, A.
Cyrtoceras.—Barnes, J.; Crick, G. C.; Grabau, A. W., &c.; Kindle, E. M.
Cyrtoclymenia.—Clarke, J. M.
Cyrtodelphis.—Abel, O.
Cyrtolites.—Rowley, R. R.
Cyrtometopus.—Lindström, G.
Cystiphyllum.—Frech, F., &c.; Lambe, L. M.; Peez, H. von.
 Cystoidea, Silurian.—Bjerlykke, K. O.; Grabau, A. W., &c.; Jækel, O.
 —. See also Echinodermata.
Cythere.—Choffat, P.; Clark, W. B., &c.; Fritsch, A.; Namias, I.
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Epsom (Surrey).—Stebbing, W. P. D.

- Equisetites*.—Kidston, R.; Seward, A. C.
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Eremopteris.—White, D.
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 —, fluvioglacial, Swedish.—Hægbom, A. G.
 —, pre-Pontian South European. —Høernes, R.
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 Erratic Boulders, British Is.—Kendall, P. F., &c.
 —, Limburg (Belg.).—Van den Broeck, E.
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 —. See also Devonian.
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 —, paleolithic man &.—Rutot, A.
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- Forfarshire.—Barrow, G.
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 —, submerged valleys.—Lobley, J. L.
 — (N.), water-level.—Gosselet, J.
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Galeocerdo.—Clark, W. B., &c.
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- Gasteropoda, rock-pitting.—Harlé, E.
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- (—) pre-Drift surface.—Jentsch, A.
- , Brown-coal.—Stirling, J.
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- Giswylstock (Unterwalden).—Hugi, E.
- Gizio Valley (Abruzzo).—Cassetti, M.
- Glacial deposits, Australia (S.).—Chewings, C.; Howchin, W.
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- , Germany.—Chmielewski, C.; Wahnschaffe, F.
- , Lancashire.—Dickson, E.
- , Massachusetts.—Fuller, M. L.
- , Norfolk.—T. Hughes, McK.
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- , Switzerland.—Baltzer, A.
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- , See also Drift.
- , erosion.—Baltzer, A.; Brigham, A. P.; Davis, W. M.
- , periods.—Dickson, H. M.; Hitchcock, C. H.; La Touche, J. D.; Lang, H. von; Lowell, P.; Penck, A.; Winchell, N. H.
- , See also Glaciation.
- , polishing, Würtemberg.—Fraas, E.; Koken, E.
- Glaciated rock-valley, Caermarthenshire.—Codrington, T.
- Glaciation, Arran.—Cowrie, C. R.
- , Australasia.—David, T. W. E., &c.; Penck, A.
- , Balkan Peninsula.—Penck, A.
- , Baltic.—Bonney, T. G., &c.; Holst, N. O.
- , Bavaria.—Penck, A., &c.; Regelmann, L.
- , Britain.—Bonney, T. G.
- , Caernarvon.—Dakyns, J. R.
- , Carpathians.—Martonne, E. de.
- , Cheviot Hills.—Kendall, P. F.
- , Durham.—Egglesstone, W. M.
- , Europe.—Geikie, J.
- , France.—Davis, W. M.
- , Jura.—Eberhardt, B.
- , Lancashire.—Lomas, J.
- , land-oscillation &.—Holst, N. O.
- , Maine.—Tarr, R. S.
- , New Zealand.—Hitchcock, C. H.
- , northern hemisphere.—Anon., 41; Ekholm, N.; Harmer, F. W.; Wright, G. F.
- , Norway.—Davis, W. M.
- , Silesia.—Crammer, H.; Wahnschaffe, F.
- , Switzerland.—Baltzer, A.; Beiler, T.; Davis, W. M.
- , Wales (S.).—Howard, F. T., &c.
- , Yorkshire.—Jowett, A., &c.; Stather, J. W.; Wilson, J. C.
- , See also Glacial deposits.
- Glacier Commission.—Richter, E.
- , movement.—Reid, H. F.
- , variations.—Baltzer, A.; Finsterwalder, S., &c.; Forel, F. A.; Rabot, C.; Reid, H. F.; Rekstad, J.; Richter, E., &c.
- Glaciers, Antarctic.—Arctowski, H.; Gregory, J. W., &c.
- , Arctic.—Rabot, C.
- , Auvergne.—Martin, D.
- , Grindelwald.—Baltzer, A.
- , Scandinavia.—Hamburg, A.; Eysen, P. A.; Rabot, C.; Rekstad, J.
- , stratification of.—Reid, H. F.
- , Styrian.—Richter, E.
- , surface-ice structure.—Skinner, S.

- Glazil 'volcano' (Hautes-Alpes).—Van den Broeck, E.
- Glamorganshire.—Strahan, A., &c.; Tiddeman, R. H.
- Glandulina*.—Egger, J. G.
- Glasgow district.—Elliot, G. F. S., &c.
- Exhibition.—Hine, E. W.; Maitland, A. G.
- Glass, crystallization.—Hundeshagen, F.
- Mts. (Oklahoma).—White, M.
- , quartz.—Schafarzik, F.
- Glatz (Silesia).—Bathe, E.
- Glauconia*.—Schnarrenberger, C.
- Glaucophane-schists.—Washington, H. S.
- Gleichenia*.—Fritsch, A., &c.
- Gleichenites*.—Seward, A. C.
- Glencoe (Natal).—Gray, C. J.
- Glenopteris*.—Sellards, E. H.
- Glen Roy (Inverness).—La Touche, J. D.
- Globigerina*.—Clark, W. B., &c.; Egger, J. G.; Grzybovski, J.
- Glomeropsis*.—Fritsch, A.
- Glons (Liège).—Questienne, P.
- Glossopteris*.—Frech, F.
- Glossotherium*.—Nordenskjöld, E.
- Gloucestershire.—Bate, D. M. A.; Buckman, S. S.; McMurtrie, J.; Morgan, C. L., &c.; Reynolds, S. H.; Winwood, H. H.
- Glycimeris*.—Clark, W. B., &c.
- Glynde (Sussex).—Johnson, J. P.
- Glyptocrinus*.—Grabau, A. W.
- Glyptodesma*.—Kindle, E. M.
- Glyptostrobus*.—Knowlton, F. H.; Menzel, P.
- Gnathophausia*.—Jäkel, O.
- Gneiss, Alaska.—Brooks, A. H.
- , Bohemia.—Hinterlechner, K.
- , Dutch Guiana.—Du Bois, G. C.
- , Erzgebirge.—Beck, R.
- , French Alps.—Termier, P.
- , Guttannen.—Bonney, T. G.; Fellenberg, E. von, &c.
- , Madagascar.—Lacroix, A.
- , Madras.—Holland, T. H.
- , Malvern.—Callaway, C.
- , Moray Firth.—Mackie, W.
- , Scotland.—Horne, J.
- , Valais.—Milch, L.
- Gobi Altai (Asia).—Krahmer, —.
- Göding (Moravia).—Tietze, E.
- Gohelle, La (Pas-de-Calais).—Gosselet, J.
- Gold, Alabama.—Lakes, A.
- , Alaska.—Brooks, A. H.; Eldridge, G. H.; Furman, H. van F.; Schrader, F. C., &c.; Spurr, J. E.
- , Arizona.—Comstock, T. B.
- , Australia (S.).—Coghlan, T. A.; Mactear, J.; Walton, W. S.
- , — (W.).—Blatchford, T.; Campbell, W. D.; Carnot, A.; Coghlan, T. A.; Frecheville, W.; Hine, E. W.; Krusch, P.; Mactear, J.; Maitland, A. G.; Rickard, T. A.; Simpson, E. S.; Welton, W. S.; Woodward, H. P.
- Gold, Bolivia.—Frochot, M.
- , British Columbia.—McBride, R.; Sandeman, J. J.; Watson, R. L.
- , British Guiana.—Powell, J. H.
- , Burma.—Smyth, H. W.
- , California.—Dron, R. W.; Gledhill, E.; Hanks, H. G.; Lakes, A.; McCormack, E.; Welton, W. S.
- , Canada (N.W.).—Bowie, A. J.; Dall, W. H.; Lobel, L. de; Meiklejohn, J.; Tyrrell, J. B.
- , Carolina (N. & S.) & Tennessee.—Lakes, A.
- , Chile.—Barber, G. M.
- , China.—Hoover, H. C.; Vogel-sang, K.
- , Colombia.—Gledhill, E.; Owen, F.; Welton, W. S.
- , Colorado.—Lakes, A.; Owen, F.; Rickard, T. A.
- , crystallization.—Liversidge, A.
- , Dakota (S.).—Chance, H. M.
- , distribution of.—Levat, E. D.
- , Dutch Guiana.—Du Bois, G. C.
- , Ecuador.—Finlay, J. R.
- , French Guiana.—Levat, E. D.
- , Gasaland & Manicaland.—Sawyer, A. R.
- , Hungary.—Gesell, A.; John, C. von, &c.; Semper, M.
- , Idaho.—Lakes, A.; Lindgren, W.
- , India.—Evans, J. W.; Foote, R. B.; Griesbach, C. L.; Hatch, F. H.; Hayden, H. H., &c.; Primrose, A.; Sambasiva Iyer, V. S.; Smeeth, W. F.; Sowerby, W.
- , Ireland.—Lyburn, E. St. J.
- , Klondyke.—Bowie, A. J.; Lobel, L. de.
- , Madagascar.—Lacroix, A.
- , Malay Peninsula.—Stephens, F. J.
- , Mexico.—McCarthy, E. T.; Collins, H. F.; Wankowski, V.
- , minerals accompanying.—Collins, H. F.; Rickard, T. A.
- , Montana.—Weed, W. H.
- , Natal.—Gray, C. J.
- , New Mexico.—Weatherby, W. J.
- , New South Wales.—Andrews, E. C.; Browne, D. H.; Canning, A. R.; Coghlan, T. A.; Mactear, J.; Pittman, E. F.; Welton, W. S.
- , New Zealand.—Allen, F. B.; Coghlan, T. A.; Maclaren, J. M.†
- , Wylie, W.
- , Norway.—Daw, J., jun.
- , Nova Scotia.—Gilpin, E., jun.
- , origin of.—Emmons, S. F.; Keyes, C. R.; Lindgren, W.; Van Hise, C. R.
- , Peru.—Malsch, C.
- , Philippine Is.—Becker, G. F.
- , placer.—Lakes, A.; Levat, E. D.
- , Queensland.—Ball, L. C.; Cameron, W. E.; Maclaren, J. M.; Mactear, J.; Welton, W. S.
- , Siberia.—Saytzer, A.
- , Spain.—Welton, W. S.

- Gold, Tasmania.—Coghlan, T. A.
 —, Tierra del Fuego.—Pöhlmann, R.
 —, Transvaal.—Chalmers, J. A.;
 Crosse, A. F.; Denny, G. A.; Has-
 sall, J.; Penning, W. H.; Pickstone,
 W.; Rathbone, E. P.; Welton, W.
 S.; Wilkinson, W. F.; Wybergh, W.
 —, Transylvania.—Ebbeke, K., &c.;
 Semper, M.
 —, Urals.—Visotzki, N.
 —, Victoria (Austral.).—Browne, D.
 H.; Coghlan, T. A.; Ferguson, W.
 H.; Hunter, S.; Lidger, E.; Liver-
 sidge, A.; Mactear, J.; Rickard, T.
 A.; Welton, W. S.
 —, Washington.—Chatard, T. M.
 —, Yukon, &c. *See* Canada (N.W.),
 Klondyke, &c.
 —. *See also* Auriferous.
 Golden (Colo.).—Patton, H. B.
 Gomphoceras.—Kindle, E. M.
 Gomphus.—Fritsch, A., &c.
 Goniaraea.—Oppenheim, P.
 Goniatites.—Angelis d'Ossat, G. de;
 Clarke, J. M.; Collot, —; Kindle, E. M.
 Goniobasis.—Grabau, A. W., &c.
 Goniodon & Goniopygus.—Loriol, P. de.
 Goniolina.—Deecke, W.
 Goniomya.—Logan, W. N.; Peach, B.
 N., &c.
 Goniophora.—Grabau, A. W.; Kindle,
 E. M.
 Gonioseris.—Wellburn, E. D.
 Goodwin Sands (Engl. Channel).—Cor-
 nish, V.
 Goossensia.—Vincent, E.
 GORDON, M. O.—Löwinson-Lessing, F.
 Goritz (Austria).—Mazelle, E.
 Gorlice (Galicia).—Grzybovski, J.
 Goslar (Harz).—Beushausen, L.
 Gosné (Ille-et-Vilaine).—Bézier, T., &c.
 GOTHAN'S borehole-tester.—Thumann,
 H.
 Gotland (Sweden).—Chapman, F., &c.;
 Holst, N. O.; Munthe, H.; Törn-
 quist, S. L.
 Gotlandian.—Kerforne, F.
 Gourara (Sahara).—Flamand, G. B. M.
 Gower (Glamorgan).—Tiddeman, R. H.
 Graham Land (Antarctic).—Arętowski,
 H.
 Grammoceras.—Campana, D. del;
 Fucini, A.
 Grammysia.—Kindle, E. M.
 Grand Cañon (Colo.).—Davis, W. M.
 Grande, Rio (Texas).—Vaughan, T. W.
 Granite, Alaska.—Spurr, J. E.
 —, alumina-silicate compounds, &
 clays.—Vydrovski, S.
 —, Bavaria.—Muegge, O.
 —, Baveno.—Artini, E.
 —, Bohemia.—Martin, F.
 —, Brazil.—Bodenbender, G.
 —, Cheviot Hills.—Kynaston, H.
 —, Cornwall.—Lowe, H. J.
 —, Dartmoor.—McMahon, C. A.
 —, gases in.—Gautier, A.
 —, Georgia.—Watson, T. L.
 Granite, Hesse.—Salomon, W.
 —, Hungary.—Schafarzick, F.
 —, Maryland.—Leonard, A. G.
 —, melting-point.—Delter, C.
 —, metamorphic or igneous origin.—
 Anon., 47; Cole, G. A. J.
 —, Montana.—Weed, W. H.
 —, Moravia.—Neuwirth, V.
 —, Nevada.—Spurr, J. E.
 —, Norway.—Anon., 44.
 —, Pyrenees.—Lacroix, A.; Stuart-
 Menteath, P. C.
 —, rapakivi.—Holmquist, P. J.
 —, Sardinia.—Riva, C.
 —, Scotland.—Horne, J.; Mackie, W.;
 Smith, J.
 —, Servia.—Erdős, L.
 —, Småland.—Nordenskjöld, O.
 —, spectrographic analysis of.—Hart-
 ley, W. N., &c.
 —, structure of.—Ramsay, W., &c.
 —, Urals.—Morozovich, I.
 —, veins, chemical composition. —
 Mackie, W.
 —, Valais.—Bonard, A.; Milch, L.
 —, Victoria (Austral.).—Hogg, E. G.
 —, Washington (U.S.A.).—Smith, G.
 O., &c.
 —. *See also* Igneous rocks.
 Granitic gneiss, Bohemia.—Hinter-
 lechner, K.
 Granophyre, Ardnamurchan.—Busz, K.
 Granulite, Moravia.—Suess, F. E.
 Graphite, Austria-Hungary.—Hørnes,
 R.; John, C. von, &c.; Ebbeke, K.,
 &c.
 —, Ceylon.—Parkinson, J.; Wein-
 schenk, E.
 —, Ilmen Mts.—Vernadski, W., &c.
 —, occurrence.—Weinschenk, E.
 —, Pennsylvania.—Hopkins, T. C.
 Graptolites.—Bjørlykke, K. O.; Elles,
 G. L., &c.; Elliot, G. F. S., &c.;
 Grant, C. C.; Moberg, J. C.; Newton,
 E. T.; Tjernquist, S. L.
 Graslitz (Saxony).—Gæbert, C.
 Gravels, Alaska.—Spurr, J. E.
 —, auriferous.—Holmes, W. H.; Wel-
 ton, W. S.; *see also* Auriferous, &c.
 —, Belgium.—Halleux, A.; Vincent,
 E.
 —, Berkshire & Surrey.—Monckton,
 H. W.
 —, Christiania.—Bjørlykke, K. O.
 —, Hanover.—Hamm, H.
 —, Kovno & E. & W. Prussia.—
 Chmielevski, C.
 —, London Basin.—Whitaker, W.
 —, Paris Basin.—Meunier, S.; Rutot,
 A.
 —, plateau.—Monckton, H. W.
 —. *See also* Drift, &c.
 Gravimeter.—Schmidt, A.
 Grays Thurrock (Essex).—Hinton, M.
 A. C.
 Great-Basin region (Nevada, &c.).—Spurr,
 J. E.
 Great-Bear Lake (Canada).—Bell, J. M.

- Great Britain, Geological Survey. *See* Geological Survey.
 —, mines and minerals.—Atkinson, J. B., &c.; Foster, C. Le N., &c.
 Great Crosby (Lancs).—Reade, T. M.
 Great-Salt Lake (Utah).—Talmage, J. E.
 Grecian Archipelago.—Philippson, A.
 Greece.—Cayeux, L., &c.; Coomáraswámy, A. K.; Cordella, A.; Woodward, A. S.; Zengelis, C.
 Greenbushes tinfield (W. Austral.).—Maitland, A. G.
 Greenhill quarries (Ayrshire).—Craig, R.
 Greenland.—Flink, G.; Nathorst, A. G.; Nicolau, T.; Steenstrup, K. J. V.; Woodward, A. S.
 Green Mts. (Arabia).—Milnes, S. B.
 GREENWELL, G. C.—Anon., 9; Greenwell, G. C.
 Grenadines (W. I.).—Spencer, J. W. W.
 Grenoble (Dauphiné).—Kilian, W.
 Grey Hook (Devon).—Kayser, E.
 Greywethers. *See* Sarsens.
Griffithides.—Fliegel, G.
 Grindelwald (Bern).—Baltzer, A.
Griphodictya.—Hall, J., &c.
 Griqualand, W. (Cape Colony).—Bonney, T. G.; Olds, H. F.; Rinne, F.
 Grisons (Switzerland).—Lorenz, T.; Rothpletz, A.
 Gröden Sandstone.—Geyer, G.
Grodus.—Seguenza, L.
 Grola-in-Cornedo (Venetia).—Dal Lago, D.
 Grove Park (Kent).—Holmes, T. V.
Gryphæa.—Clark, W. B., &c.; Greppin, E.; Imkeller, H.; Peach, B. N., &c.
Gryphaostrea.—Clark, W. B., &c.
Grypotherium.—Ameghino, F.
 Guadalcazar (Mexico).—Collins, H. F.
 Guadeloupe (W. I.).—Spencer, J. W. W.
 Guanaco (Atacama).—Barber, G. M.
 Guanite.—Richter, O.
 Guiana. *See* British, &c.
 GUIDONI, G.—Vinassa de Regny, P.
 Guildford (Surrey).—Blundell, G. E.
Guilielmofloweria & *Guilielmoscottia*.—Ameghino, F.
 Guldal (Trondhjem).—Friis, J. P.
 Gullet Pass (Malverns).—Moore, H. C.
Gümbelina.—Egger, J. G.
 Gun Hill (Ladysmith).—Exton, H., &c.
 Gunung Ringgit volcano (Java).—Wichmann, A.
 Gunwalloe (Cornwall).—Fox, H.
 Guttannen gneiss.—Bonney, T. G.; Fellenberg, E. von, &c.
 Guyenne (France).—Thévenin, A.
Gyidula & *Gyroceras*.—Kindle, E. M.
Gymnites.—Reis, O. M.
Gymnocidaris.—Lambert, J.
Gymnogramme.—Fritsch, A., &c.
 Gyöngyos-Pata (Hungary).—Horusitzki, H.
Gypsina.—Chapman, F.
 Gypsum.—Artini, E.; Brandes, G.; Butzureau, V. C.; Grimsley, G. P.; Janet, L.; Pelloux, A.; Priem, F.; Stella, A.; Stirrup, M.; Van't Hoff, J. H., &c.; Viola, C.; Wieger, F.
 Hæmatite, Cumberland.—Walker, W. E.
Hagenovinnella.—Canu, F.
 Hailes Quarry (Edinburgh).—Simpson, J., &c.
 Hailey gold-belt (Idaho).—Lakes, A.
Haimeseastræa.—Vaughan, T. W.
 Hainault (Belgium).—Cornet, J.; Dorlodot, H. de; Forir, H.; Lagrange, E.; Simoens, G.; Stainier, X.
 Hainberg (Bavaria).—Hess von Wichdorff, H.; Muegge, O.
 Haine R. (Belgium).—Cornet, J.
 Haïti (W. I.).—Tippenhauer, L. G.
Halicapsa.—Neviani, A.
 Halifax (Yorks).—Ashley, T.
 Halle (Saxony).—Fritsch, —von; Wuest, E.
 Hällefinta, Småland.—Nordenskjöld, O.
Hallodictya & *Helicodictya*.—Hall, J., &c.
Halobia.—Tommasi, A.
Halomitra.—Angelis d'Ossat, G. de.
Halysites & *Heliolites*.—Grabau, A. W., &c.; Whitfield, R. P.
 Hamilton (Ont.).—Grant, C. C.
 Hamilton formation. *See* Devonian.
 Hampshire.—Blundell, G. E.; Johnson, J. P.
 Hanging valleys.—Davis, W. M.
 Hannans (W. Austral.).—Woodward, H. P.
 Hanover (Germany).—Hamm, H.; Kært, W.; Mueller, G.
Haploceras & *Hecticoceras*.—Loriol, P. de.
Haplophragmium.—Egger, J. G.; Grzybovski, J.
Haplostiche.—Egger, J. G.; Schubert, R. J.
 Harney Peak (Dak.).—Hovey, E. O.
Harpagolestes & *Harpalodon*.—Wortman, J. L.
Harpalus.—Scudder, S. H.
Harpax.—Behm, J.
Harpes.—Lindström, G.
Harpoceras.—Campana, D. del; Bettoni, A.; Fucini, A.; Loriol, P. de.
 Harra (Belg. Luxemburg).—Lohest, M.
 Harrington R. (Canada).—Ami, H. M.
 Harrodsberg (Ind.).—Cumming, E. R.
 Hartville (Wy.).—Chance, H. M.
 Harz (Germany).—Beushausen, L.; Brandes, G.; Koch, M.; Pelikan, A.; Solger, F.; Sterzel, J. T.
 Haslach (Baden).—Thuerach, H.
 Hasli valley (Bern).—Lugeon, M.
 Hastings (Sussex).—Van Ysendyck, P.
 HAUSER, F. von.—Klement, C.
 Hauerite.—Struever, J.
 Hauterivian, Pays de Bray.—Mercey, N. de.
 Hautes-Alpes (France).—Régnauld, F., &c.; Van den Broeck, E.
 Haüy's law.—Panebianco, R.

- Haüynophyre.—Esch, E.
Haversin (Namur).—Forir, H.
Hawaiian Is.—Hitchcock, C. H.
Hawkins Hill (N.S.W.).—Marshall, A. W.
Heathfield (Sussex).—Dawson, C.
Hedera.—Fritsch, A., &c.
Hedralophos.—Ameghino, F.
Hedrumite.—Löwinson-Lessing, F.
Heidelberg (Baden).—Dittrich, M.
Heidelberg (Transvaal).—Penning, W. H.
Heimia.—Greppin, C.
Helderbergian.—Schuchert, C.
Helderbergs (N.Y.).—Prosser, C. S., &c.
Helgeland (Norway).—Rekstad, J., &c.; Vogt, J. H. L.
Heliastrea.—Oppenheim, P.
Helicia.—Deane, H.
Helicoprion.—Fuchs, T.; Klaatsch, H.; Koken, E.
Helipora.—Angelis d'Ossat, G. de; Grabau, A. W., &c.
Heliosphæra.—Issel, A.
Helix.—Dall, W. H.; Wuest, E.
—pitted rocks.—Harlé, E.
—*sylvana*-limestone.—Miller, K.
Helsingland (Sweden).—Hedström, H.
Hemiasler.—Oppenheim, P.
Hemipristis.—Nøtling, F.
Hemiptychina.—Frech, F.
Hennberg (Bavaria).—Hess von Wichdorff, H.; Muegge, O.
Henricofilholia & *Henricosborni*.—Ameghino, F.
Hérault (France).—Roman, F.; Rouville, — de; Viré, A.
Herborn (Hesse).—Kayser, E.
Hercoglossa.—Clark, W. B., &c.
Herefordshire.—Conder, E.; Marshall, H. B. D.; Moore, H. C.; Piper, G. H.
Herkimer Co. (N.Y.).—White, T. G.
Herne Bay (Kent).—Van Ysendyck, P.
Hertfordshire.—Whitaker, W.
Herve, Pays de (Belgium).—Halleux, A.
Herzogowina.—Penck, A.
Hesbaye (Belgium).—Forir, H.
Hesse (Germany).—Bauer, M.; Breddin, G.; Chelius, C.; Delkeskamp, R.; Denckmann, A.; Kayser, E.; Kinkelin, F., &c.; Klemm, G.; Kueppers, E.; Kunze, K.; Leppla, A.; Lepsius, R.; Reinach, Baron A. von; Salomon, W.; Schalch, F.; Steuer, A.; Wittich, E.
Hessler sand-pit (Hesse).—Kinkelin, F., &c.
Heterastridium & *Hydractinia*.—Vinnassa de Regny, P. E.
Heteræcium.—Canu, F.
Heteropora.—Clark, W. B., &c.
Heteropsammia & *Hydnophora*.—Angelis d'Ossat, G. de.
Heterostomella.—Egger, J. G.
Heterothops & *Hydrocharis*.—Scudder, S. H.
Hexagonaria.—Deecke, W.
Heyst-op-den-Berg (Flanders).—Van Erthorn, Baron O.
Hiattula.—Nøtling, F.
Highlands, Scottish.—Barrow, G.; Macnair, P.
Highwood Mts. (Mont.).—Weed, W. H., &c.
Hildoceras.—Bettoni, A.; Fucini, A.
Hill End (N.S.W.).—Marshall, A. W.
—Grove (N.S.W.).—Andrews, E. C.
Hills, origin of.—Marr, J. E.
Hils Basin (Brunswick).—Kænen, A. von.
Himalayas (Asia).—Blanford, W. T.; Diener, C.; Frech, F.; Griesbach, C. L.; Kraft, A. von; McMahon, C. A.
Hindiella.—Dall, W. H.
Hipparion.—Venukov, P. N.
Hippone.—Shunes, J.
Hipponyx & *Hydnophyllia*.—Oppenheim, P.
Hippopodium.—Cossmann, M., &c.
Hippoporina & *Hornera*.—Neviani, A.
Hippurites.—Parona, C. F.
Histioderma.—Cole, G. A. J.
Hitchcockite.—Hartley, E. G. J.; Miers, H. A.
Hohelohr (Hesse).—Denckmann, A.
Hohenlimburg (Westphalia).—Loretz, H.
Hohenzollern (Germany).—Eck, H.; Schmidt, A.
Hoher Venn (Rh.-Prussia).—Grebe, H.
Holderness (Yorks).—Sheppard, T.
Holland, Linburg coal.—Zondevan, H.
—, mineral-waters.—Six, A.
—, Quaternary, &c.—Lorié, J.
—, Scheldt silting up.—Van der Veur, G. J. G.
Hollybush conglomerates.—Groom, T. T.
Holmia.—Pompeckj, J. F.; Warner, A.
Holoptychius & *Hoplopteryx*.—Woodward, A. S.
Holzen (Brunswick).—Kænen, A. von.
Homalonotus.—Grabau, A. W., &c.; Kerforne, F.; Lindström, G.
Homalostylops.—Ameghino, F.
Homeomorphy, Brachiopoda.—Buckman, S. S.
Homœospira & *Hyattella*.—Grabau, A. W., &c.
Homolichas & *Hoplolichas*.—Guerich, G.
Homomya.—Boehm, J.; Martelli, A.
Honestones.—Smith, J.
Honolulu (Oahu).—Bishop, S. E.
Hook (Hants).—Blundell, G. E.
Hooser (Tex.).—Spandel, E.
Hoploparia.—Pilsbry, H. A.
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- , Austria-Hungary. *See* Bohemia, &c.
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 Kotchkar (Perm).—Visotzki, N.
 Kounicia.—Fritsch, A., &c.
 Kovno (Russia).—Chmielevski, C.
Krannera.—Fritsch, A., &c.
 Krassó Szoreny (Hungary).—Adda, K. von; Schafarzik, F.
 Kremsmünster (Upper Austria).—Schwab, F.
 Kreuz Valley (Carinthia).—Geyer, G.
 Krimml (Tyrol).—Diener, C.
 Ktypeite.—Vater, H.
 Kučaj (Servia).—Radovanovič, S.
 Künzelsau (Württ.).—Hermann, F.
 Kupferberg (Silesia).—Krusch, P.
 Kursk Gov. (Russia).—Nikitin, S. N.
 Kuznetz (Siberia).—Peetz, H. von.
 Kynaston (Hereford).—Marshall, H. B. D.
Laasbium.—Scudder, S. H.
Labeo.—Priem, F.
 Laborcza R. (Upper Hungary).—Olszewski, S.
 Labradorite.—Guebhard, A.
Labrodon.—Seguenza, L.
 Labyrinthodonts, Permian.—Fraas, E.
 Laccadives (Indian Ocean).—Gardiner, J. S.
 Laccolites, Arkansas.—Washington, H. S.
 —, Bohemia.—Hibsch, J. E.
 —, Montana.—Weed, H. W., &c.
Lacopteris.—Seward, A. C.; Ward, L. F., &c.
 LACOE, R. D.—Hayden, H. E.
 Lacustrine deposits.—Lagerheim, G.; Murray, Sir J., &c.; Ramond, G.
 Ladakh (N.W. Himalaya).—McMahon, C. A.
 Ladoga-Baltic isthmus.—Lamanski, V. V.
 Ladysmith (Natal).—Chapman, F., &c.; Exton, H., &c.
 Lafayette District (Brazil).—Derby, O. A.
Lagena.—Egger, J. G.
Lagenipora.—Neviani, A.
 Lagonite.—Achiardi, G. d'.
 Lagoon-deposits, Funafuti.—Chapman, F.
 Laibach (Carniola).—Seidl, F.
 Lake-basins, Canada, &c.—Parkinson, J.
 — District.—Oldham, R. D.; Reade, T. M., &c.
 — dwellings, Essex.—Holmes, T. V.
 — of the Woods (Canada).—Probert, F. H.
 — Superior. See Superior, &c.
 Lakes, American Great.—Gilbert, G. K.
 —, Cheviot Hills.—Kendall, P. F.
 —, Indiana.—Blatchley, W. S., &c.
 —, Lapland & Sweden.—Ahlenius, K.
 —, New York.—Nervius, J. N.; Watson, T. L.
 —, Norway.—Eyen, P. A.
 —, Patagonia.—Hatcher, J. B.
 —, Tyrol.—Möllner, J.
 —, Wisconsin.—Buckley, E. R.; Van Hise, C. R.
 —. See also Lacustrine.
Lambdaconus.—Ameghini, F.
 Lamellibranchiata, Cambrian.—Crosby, W. O.

- Lamellibranchiata, Carboniferous. — Beede, J. W.; Elliot, G. F. S. &c.; Fliegel, G.; Hind, W.; Jones, T. R.
- , Cretaceous.—Borisiak, A.; Douvillé, H.; Fritsch, A., &c.; Imkeller, H.; Meli, R.; Pâquier, V.; Parona, C. F.; Pompeckj, J. F.; Radde, G.; Schnarrenberger, C.; Trabucco, G.; Virgilio, F.; Wollemann, A.; Woods, H.
- , Devonian.—Frech, F., &c.; Grabau, A. W.; Kayser, E.; Kindle, E. M.; Peetz, H. von; Whidborne, G. F.
- , Jurassic.—Bettoni, A.; Böhm, J.; Bogdanovitch, K., &c.; Cossmann, M., &c.; Greppin, E.; Guerich, G.; Logan, W. N.; Lorenz, T.; Lorient, P. de; Nathorst, A. G.; Peach, B. N., &c.; Philippi, E.; Pompeckj, J. F.; Radovanovič, S.
- , Permian.—Beede, J. W.; Frech, F.; Fritsch, A.
- , Quaternary.—Grabau, A. W., &c.; Johnson, J. P.; Kennard, A. S.; Nordenskjöld, E.; Rekstad, J.
- , Silurian.—Grabau, A. W., &c.
- , Tertiary.—Blanckenhorn, M.; Bonarelli, G.; Clark, W. B., &c.; Dall, W. H.; Dollfus, G., &c.; Leriche, M.; Martelli, A.; Meli, R.; Nœtling, F.; Oppenheim, P.; Parona, C. F.; Pritchard, G. B.; Radde, G.; Raulin, V.; Steinmann, G.; Tate, R.; Trabucco, G.; Vincent, E.; Viola, C.; Werth, E.
- , Triassic.—Bittner, A.; Checchia, G.; Tommasi, A.; Radde, G.
- Lamites*.—Fritsch, A., &c.
- Lamna*.—Sangiorgi, D.; Seguenza, L.; Williston, S. W., &c.
- Lamprophyre.—Dresser, J. A.
- Lampsilis*.—Grabau, A. W., &c.
- Lanaeken (Belgian Limburg). — Van Ertborn, Baron O.
- Lanarkshire.—Cairncross, J. M.; Smith, J.
- Lancashire.—Davison, C.; Dickinson, J.; Hind, W.; Lomas, J.; Reade, T. M.; Tiddeman, R. H.
- Land, sea &c.—Henkel, L.
- oscillations, sea- &c.—Bell, R.; Haug, E.; Pearson, H. W.; Ward, T.
- , Scandinavia.—Hansen, A. M.; Hollender, A.; Holst, N. O.; Vogt, J. H. L. *See also* Raised beaches.
- Landes (France).—Durègne, —; Fabre, L. A.
- Landslips, Colorado.—Cross, W.
- , Herefordshire.—Marshall, H. B. D.
- , India.—Griesbach, C. L.
- , St. Lawrence Valley.—Ells, R. W., &c.
- , Scarborough, Monckton, H. W.
- , Trondhjem.—Friis, J. P.
- Langenberg (Magdeburg).—Richter, P.
- Langhian.—Martelli, A.; Nelli, B.
- Languedoc (France).—Roman, F.; Sayn, G., &c.
- Lanistes*.—Blanckenhorn, M.
- Lanzo Valley (Piedmont).—Sacco, F.
- Laorca (Lombardy).—Artini, E.
- Lapeirousia*.—Parona, C. F.
- LAPLACE's hypothesis.—Ratzel, F.
- publication-dates.—Sherborn, C. D., &c.
- Lapland.—Ahlenius, K.; Dal, A.
- La Plata (S. Am.).—Church, G. E.
- LAPWORTH, C.—Watts, W. W.
- Larderellite.—Achiardi, G. d'.
- LARTET, L.—Margerie, E. de.
- Lassallite.—Friedel, G.
- Lastrea*.—Diller, J. S.
- Latirus*.—Clark, W. B., &c.
- Latium (Italy).—Friedländer, E., &c.
- (—). *See also* Rome, &c.
- Lau Is. (Fiji).—Andrews, E. C.; Sawyer, B.
- Laurentian, Canada.—Ami, H. M.; Ells, R. W.
- Laurium (Greece).—Cordella, A.
- Laurus*.—Diller, J. S., &c.; Fritsch, A., &c.; Knowlton, F. H.
- Lausitz (Saxony).—Bergt, W.
- Lavas, Lipari Is.—Colomba, L.
- , Lorne andesitic.—Kynaston, H.
- , Maine.—Gregory, H. E.
- , melting-point of.—Dælder, C.
- , Oregon.—Diller, J. S.
- *See also* Igneous rocks, &c.
- Lea Marshes (Essex).—Holmes, T. V.
- Lead, Argentina & Brazil.—Bodenbender, G.
- , Arkansas.—Branner, J. C.
- , Asia Minor.—Berg, G.
- , Australia (W.).—Maitland, A. G.
- , Belgium.—Lohest, M.; Mourlon, M.
- , British Columbia.—Kendall, J. D.
- , Canada.—Ingall, E. D.
- , China.—Hoover, H. C.
- , France.—Lotti, B.
- , Greece.—Cordella, A.
- , Illinois & Wisconsin.—Libby, O. G., &c.
- , Iowa.—Bain, H. F.; Calvin, S.; Libby, O. G., &c.
- , Kansas.—Grimsley, G. P.
- , Missouri.—Brinsmade, R. B.; Crane, W. R.
- , New South Wales.—Moulden, J. C.
- , Saxony.—Mueller, H.
- , sulpharsenites of.—Solly, R. H.
- , United States.—Kirchhoff, C.
- Leadhillite.—Muegge, O.; Rogers, A. F.
- Lebedictya*.—Hall, J., &c.
- Lecanites*.—Tommasi, A.
- Lecanocrinus*.—Grabau, A. W., &c.
- Leccioni Hills (Tuscany).—Ristori, G.
- Leckenbya*.—Seward, A. C.
- LE CONTE, J.—Anon., 11; Chamberlin, T. C.

- Leda*.—Checchia, G.; Clark, W. B., &c.; Nøtling, F.; Pritchard, G. B.; Steinmann, G.
- Ledbury* (Herefordshire).—Piper, G. H.
- Leibau* (Silesia).—Wahnschaffe, F.
- Leicestershire*.—Elsden, J. V., &c.; Fox-Strangways, C.; Paul, J. D.; Percy, R. F.; Watts, W. W.
- Leighton Buzzard* (Beds).—Davies, A. M.
- LEINER*, L.—Steinmann, G.
- Leioceras*.—Fucini, A.
- Leiocidaris*.—Oppenheim, P.
- Leiolichas*.—Guerich, G.
- Leiopteria*.—Hind, W.
- Leiorhynchus*.—Frech, F., &c.; Kindle, E. M.
- Lemmus*.—Bate, D. M. A.
- Lemurs*, Quaternary.—Grandidier, G.; Major, C. I. F.
- , teeth of man &.—Gaudry, A.
- Lens* (Pas-de-Calais).—Gosselet, J.
- Lenzkirch* (Rh.-Pr.).—Gerhardt, K.
- Leon*, Prov. (Spain).—Jones, J. A.
- Leonessia* (Aquila).—Moderni, P.
- Lepacyclotes* & *Lepidostrobus*.—Ward, L. F., &c.
- Leperditia*.—Chmielewski, C.; Grabau, A. W., &c.; Groom, T. T.; Peetz, H. von.
- Lepidocarpon*.—Bommer, C.; Scott, D. H.
- Lepidocladus*, *Lepidophyllum*, & *Lepidostrobus*.—Vaffier, A.
- Lepidodendron*.—Vaffier, A.; Zeiller, R.
- Lepidolite*.—Hoffmann, G. C.; Lacroix, A.
- Lepidosteus*.—Leriche, M.
- Lepini Mts.* (Rome).—Davis, W. M.
- Lepontine Alps*.—Bonney, T. G.
- Lepralia*.—Clark, W. B., &c.; Maplestone, C. M.; Neviani, A.
- Leptacinus*.—Scudder, S. H.
- Leptæna*.—Grabau, A. W., &c.; Kindle, E. M.
- Leptecodon*, *Leptichthys*, & *Leptostyrax*.—Williston, S. W., &c.
- Leptobos*.—Wuest, E.
- Leptodesma*.—Kindle, E. M.
- Leptodomus*.—Frech, F., &c.
- Leptolepis*.—Hall, T. S.
- Leptopora*.—Rowley, R. R.
- Leptoseria*.—Oppenheim, P.
- Leptospermum*.—Fritsch, A., &c.
- Leptotrachelus*.—Woodward, A. S.
- LESCHENAULT DE LA TOUR*, L. T. See Holland, T. H.
- Leschnitz* (Upper Silesia).—Potonié, H.
- Lesina I.* (Dalmatia).—Kornhuber, A.
- Lesina*, Lake (Apulia).—Checchia, G.
- Leshmagow* (Lanark).—Cairncross, J. M.; Traquair, R. H.
- Lesse R.* (Namur).—Dorlodot, H. de; Rahir, E.
- Lesve* (Namur).—Van den Broeck, E.
- ‘Lettenkohle,’* Harz.—Brandes, G.
- Leucite*.—Dørlter, C.; Esch, E.; Muegge, O.
- Leucite-basalt*.—Gruss, K.
- Levivus*.—Clark, W. B., &c.
- Lewis Co.* (N.Y.).—White, T. G.
- Leycett* (Staffs).—Stobbs, J. T.
- Lherzolite*.—Lacroix, A.
- Lias*, Basel.—Struebin, K.
- , Bavaria.—Boese, E.; Plieninger, F.
- , Grisons.—Lorenz, T.
- , Hungary.—Böckh, J.
- , Italy.—Bettoni, A.; Cassetti, M.; Lotti, B.
- , Servia.—Radovanović, S.
- Libollite*.—Gomes, J. P.
- Libyan Desert* (Egypt).—Beadnell, H. J. L.
- Lichas*.—Grabau, A. W., &c.; Guerich, G.; Jækel, O.; Kindle, E. M.; Lindstrøm, G.; Reed, F. R. C.
- Lichenalia*.—Grabau, A. W., &c.
- Liebigite*.—Rinne, F.
- Liège* (Belgium).—Dorlodot, H. de; Fourmarier, P.; Halleux, A.; Lohest, M., &c.
- Liévin* (Pas-de-Calais).—Desailly, —.
- Lightning*, a geological factor.—Anderson, G.
- Lignite*, Colorado.—Lakes, A.
- , Dakota.—Haseltine, R. M.
- , formation of.—Lemière, L.
- , Lombardy.—Achiardi, G. d'.
- , Provence.—Guébard, A., &c.
- , Texas.—Dumble, E. G.
- , See also Brown-coal.
- Liguria* (Italy).—Issel, A.; Salle, E.
- Lilienfeld* (Lr. Austria).—Bittner, A.
- Lille* (Nord).—Anon., 23; Lebrun, —.
- Lillehammer* (Norway).—Muenster, T.
- Lima*.—Greppin, E.; Imkeller, H.; Logan, W. N.; Lorient, P. de; Nøtling, F.; Oppenheim, P.; Philippi, E.; Peach, B. N., &c.; Radovanović, S.; Schnarrenberger, C.; Tommasi, A.
- Lima* (Peru).—Lisson, C. I.
- Limagne* (Auvergne).—Boule, M.; Dannenberg, A.; Sabatini, V.
- Limberg-Meissau* (Lr. Austria).—Abel, O.
- Limburg* (Baden).—Bonney, T. G.
- (Belgian).—Cornet, J.; Dollfus, G.; Mourlon, M.; Van den Broeck, E.; Van Ertborn, Baron O.
- (Dutch).—Zondevan, H.
- Limburgite*.—Bonney, T. G.; Dørlter, C.; Hinterlechner, K.; Stevens, E. A.
- Limea*.—Greppin, E.
- Limerick* (Ireland).—Kilroe, J. R., &c.
- Limestone*, Belgian black.—Malaise, C.
- , Carboniferous.—Barnes, J., &c.; Cadell, H. M.; Dorlodot, H. de; Fourmarier, P.; Kirkby, J. W.; Morton, G. H.; Stevenson, A. L.
- , Cheli.—Cayeux, L., &c.
- , Devonian.—Kerforne, F.
- , Durham.—Abbott, G.; Barker, I.; Stevenson, A. L.
- , flow of.—Adams, F. D.
- , garnet-rocks &.—Dunstan, B.
- , Hungary.—Schafarzik, F.

- Limestone, Indiana.—Blatchley, W. S.; Siebenthal, C. E.
 —, Iowa.—Calvin, S., &c.
 —, Malacca.—Newton, R. B.
 —, Missouri.—Nason, F. S.; Rowley, R. R.
 —, New Jersey.—Kuemmel, H. B.
 —, New York.—Ries, H.
 —, Queensland.—Card, G. W.; Etheridge, R., Jun.
 —, Servian weathered.—Radovanović, S.
 —, Vacluse.—Martel, E. A.
 —, water-supply &—Harzé, E.; Van den Broeck, E.
 —, West Indies.—Spencer, J. W. W.
 —, Würtemberg.—Leube, —; Fraas, E.
 —. *See also* Caverns, &c.
Limnæa.—Grabau, A. W., &c.; Gorjanovič-Kramberger, K.; Wuest, E.
Limnosaurus.—Nopcsa, F. von, Jun.
Limopsis.—Pritchard, G. B.; Oppenheim, P.; Woods, H.
Limopteria.—Bede, J. W.; Kindie, E. M.
 Limousin (France).—Lacroix, A.
Limulus.—Jækol, O.
 Linarite.—Rogers, A. F.
 Lincolnshire.—Wilson, A., &c.
 Lindenbusch (W.-Prussia).—Maas, G.
 Lindenfels (Hesse).—Chelius, C.
 Lindæite.—Bjærlykke, K. O.
 LINDSTRÖM, G.—Anon., 12; Bather, F. A.; Theel, H.
Lingula.—Beede, J. W.; Grabau, A. W., &c.; Kindie, E. M.
Lingulella.—Crosby, W. O.
Lingulina & Lituola.—Egger, J. G.
Linopteris.—Kidston, R.
Linuparus.—Ortmann, A. E.
Liocarenus.—Cossmann, M., &c.
Lioceras.—Struebin, K.
Lioclema.—Grabau, A. W.
 Lion Creek (Queensland).—Card, G. W.; Etheridge, R., Jun.
Liopteria.—Grabau, A. W., &c.
 Lipari Is.—Colomba, L.; Sabatini, V.
 Liparite.—Læwinson-Lessing, F.
 Lippe (Germany).—Morsbach, —; Stille, H.
Liquidambar.—Gould, C. N.
 Liri R. (Abruzzo).—Cassetti, M.
Liriodendron.—Knowlton, F. H.
Liriozoa.—Maplestone, C. M.
 Lisbon (Portugal).—Berkeley-Cotter, J. C.; Delgado, J. F. N.
 Lisnaskea (Fermanagh).—Egan, F. W.
Listriodon.—Stehlin, H. G.
Litharæa.—Angelis d'Ossat, G. de.
Lithocampe & Lithomitra.—Neviani, A.
Lithocoryne.—Scudder, S. H.
Lithodomus.—Nætling, F.; Oppenheim, P.; Woods, H.
Lithoglyphus.—Wuest, E.
 Lithographic stone, Missouri.—Rowley, R. R.
Lithophaga & Litiopa.—Clark, W. B., &c.
Lithophyllum.—Trabucco, G.
 Lithophysæ, American & British.—Parkinson, J.
Lithostrotion.—Etheridge, R., Jun.; Lambe, L. M.
Lithothamnium.—Martelli, A.; Martin, K.
Litsæa & Lomatia.—Dean, H.
 Little Belt Mts. (Mont.).—Weed, H. H.
 Little Rock (Ark.).—Branner, J. C.; Washington, H. S.
Littorina.—Loriol, P. de; Steinmann, G.
 Liveingite.—Solly, R. H.
 Liverpool Geological Society.—Lomas, J., &c.
 Lizard (Cornwall).—Fox, H.; Lowe, H. J.
 Lizards, Cretaceous.—Kornhuber, A.
 —, Tertiary.—Vis, C. W. de.
 Llandeilo Beds, Brabant.—Malaise, C.
 Loam. *See* Soils.
Lobites.—Tommasi, A.
 Lochs, Scottish freshwater.—Murray, Sir J., &c.
Loczella.—Frech, F.
 Lœllingite.—Hintze, C.
 Lœss, China.—Leprince-Ringuet, F.; Viglino, A.; Wright, G. F.
 —, Europe (N.).—Geikie, J.
 —, Hungary.—Horusitzki, H.
 —, Iowa.—Udden, J. A.
 —, origin of.—Keyes, C. R.; Wright, G. F.
 —, Siberia, &c.—Wright, G. F.
 —, Switzerland.—Gutzwiller, A.
 —. *See also* Drift, &c.
 Lofoten Is. (Norway).—Helland, A.
 Loing R. (France).—Ramond, G.
 Loir-et-Cher (France).—Canu, F.; Dollfus, G.
 Loire coalfield (France).—Coste, E.; Grand'Eury, C.
 Loire R. (France).—Dollfus, G.
 Loire-Inférieure (France).—Lebesconte, P.; Ehlert, D. P.; Picquenard, C.
 Lojo, Lake (Finland).—Milthers, V.
 Lombardy (Italy).—Achiardi, G. d'; Angelis d'Ossat, G. de; Artini, E.; Babu, —; Baltzer, A.; Baratta, M.; Bettoni, A.; Bistram, A. von; Brugnattelli, G.; Cacciamali, G. B.; Campana, D. del; Issel, A.; Mariani, E.; Riva, C.; Salomon, W.; Taramelli, T.; Tommasi, A.
 Lomnitz (Bohemia).—Danek, J. J.
Lonchoconus.—Ameghino, F.
Lonchopteris.—Kidston, R.; Ward, L. F., &c.
 London Basin.—Van Ysendyck, P.; Whitaker, W.
 — — — coalfield, possible.—Sollas, W. J.
 — — —, Portland-stone in.—Clayton, E. A.
 — — — Museums. *See* Museums.
 — (E.), waterworks.—Monckton, H. W.
 Londonderry (Ireland).—Cole, G. A. J.
Lombardites.—Reis, O. M.

- Longwy (Lorraine).—Michel-Lévy, A., &c.
 Lons-le-Saunier (Jura).—Loriol, P. de.
Lonsdaleia.—Lambe, L. M.
Loparia.—Oppenheim, P.
Lophiodon.—Depéret, C., &c.; Omboni, G.
Lophoblastus.—Rowley, R. R.
Lophophyllum.—Beede, J. W.
Lophoseris.—Angelis d'Ossat, G. de.
 Loreley-rock (Rhine).—Fuchs, A.
 Lorne (Scotland).—Kynaston, H.
 Lorraine. —Amsel, H.; Bleicher, M. G.; Fliche, P.; Liebheim, C.; Meunier, St.; Rolland, G.
 Lot (S. France).—Viré, A.
 Lot-et-Garonne (S. France).—Glangeaud, P.; Michel-Lévy, A., &c.; Sauvage, H. E.
 Lothians (Scotland).—Cadell, H. M.
 Lötschberg (Bern).—Fellenberg, E. von, &c.
 Loue R. (France).—Berthelot, A.
 Louisiana (Mo.).—Rowley, R. R.
 Louth Hills (Lanark).—Smith, J.
Loxocelus.—Ameghino, F.
Loxocochoa.—Egger, J. G.; Namias, I.
Loxonema.—Grabau, A. W.; Kindle, E. M.; Peetz, H. von; Tommasi, A.
Lucina.—Clark, W. B., &c.; Cossmann, M., &c.; Dall, W. H.; Nœtling, F.; Oppenheim, P.; Trabucco, G.
 Lucknow (N.S.W.).—Canning, A. R.
 Lugano, L. (Lombardy).—Bistram, A. von; Kæch, M.; Riva, C.
 Luh (Hungary).—Gesell, A.
 Lulworth Cove (Dorset).—Rowe, A. W.
 Lunain, R. (France).—Ramond, G.
Lunatia.—Clark, W. B., &c.
 Lund Geological Field-Club.—Moberg, J. C.
 Lüneburg (Hanover).—Mueller, G.
 Lungern, Lake (Unterwalden).—Hugi, E.
Lunulites.—Canu, F.; Clark, W. B., &c.
 Lure, Mtgne. de (Provence).—Kilian, W.
 Lussatite.—Slavik, F.
 Luxembourg (Belgian).—Lohest, M.; Raisin, C. A.
 Luzon I. (Philippines).—Rinne, F.
 Lycopodiaceous cones.—Scott, D. H.
Lycopodites.—Seward, A. C.
Lycoptera.—Woodward, A. S.
 Lydenburg (Transvaal).—Chapman, F., &c.
 Lyell, Mt. (Tasmania).—Daly, H. J.; Thureau, G.
 Lynton (Devon).—Whidborne, G. F.
Lyrodictya.—Hall, J., &c.
Lysorhophus.—Case, E. C.
Lytoceras.—Bettoni, A.; Campana, D. del.
Lyttonia.—Frech, F.
 McCann Sandstone.—Gould, C. N.
 McENERY, J. See Hunt, A. R.
Machrauchenia.—Nordenskjöld, E.
 Mackenzie R. (Queensl.).—Dunstan, B.
Macoma.—Dall, W. H.
 Mâcon (Saone-et-Loire).—Vaffier, A.
Macrocephalites & *Magnosia*.—Loriol, P. de.
Macrocerus.—Seeley, H. G.
Macrocheilina.—Kindle, E. M.
Macrocheilus.—Fliegel, G.
Macrocypris.—Egger, J. G.; Namias, I.
Macrodon.—Beede, J. W.; Bøhm, J.
Macropora.—Maplestone, C. M.
Macrotaeniopteris.—Arber, E. A. N.; Frech, F.; Ward, L. F., &c.
Mactra.—Blanchenhorn, M.; Nœtling, F.; Steinmann, G.
 Madagascar.—Boule, M.; Douvillé, H.; Fliche, P.; Lacroix, A.; Major, C. I. F.
 Maddalena I. (Sardinia).—Riva, C.
Madracis.—Vaughan, T. W.
 Madras (India).—Baxter, B.; Griesbach, C. L.; Hayden, H. H., &c.; Holland, T. H.
Madrepora.—Oppenheim, P.
 Madrisjoch (Rhaetian Alps).—Rothpletz, A.
Mæandrograptus.—Tærnquist, S. L.
 Maeseyck (Limbourg).—Cornet, J.
 Magdeburg (Germany).—Fahrenhorst, J.; Richter, P.
 Magellan, Straits of (S. Am.).—Church, G. E.
Magilia.—Cossmann, M., &c.
 Magmas, igneous.—Bonard, A.; Døelter, C.; Dresser, J. A.; Horne, J.; Lindgren, W.; Löwinson-Lessing, F.; Morozevich, I.; Teall, J. J. H.; Vogt, J. H. L.; Weed, W. H.
 Magnesian Is. (Greece).—Philippson, A.
 Magnesian-Limestone concretions.—Abbott, G.
 Magnesite.—Vesterberg, A.
 Magnetic Cove (Ark.).—Washington, H. S.
 Magnetism, terrestrial (Kursk Gov.).—Nikitin, S. N.
 Magnetite.—Loczka, J.; Neuwirth, V.; Vogt, J. H. L.; Wollemann, A.
 Magnitnaia, Mt. (Orenburg).—Morozevich, I.
 Magnoli, Mte. (Brescia).—Cacciamali, G. B.
Magnolia.—Fritsch, A., &c.; Knowlton, F. H.
 Maiden Bradley (Wilts).—Jukes-Browne, A. J., &c.; Scanes, J.
 Maine (U.S.A.).—Gregory, H. E.; Manning, P. C.; Tarr, R. S.; Williams, H. S.
 Maine-et-Loire (France).—Michel-Lévy, A., &c.
 Mainz (Germany).—Reinach, Baron A. von; Wittich, E.
 Malachite.—Rinne, F.
Malacystella.—Jækel, O.
 Malaga (Andalusia).—Gillman, F.
Malapœna.—Knowlton, F. H.
 Malay Peninsula.—Derrick, W. H.; Newton, R. B.
 Maldives (Indian Ocean).—Gardiner, J. S.

- Malgersdorf (Bavaria).—Ammon, L. von.
 Malham (Yorks).—Burrell, B. A.
 Malines (Belgium).—Rutot, A.; Van
 Ertborn, Baron O.
Mallotus.—Deane, H.
 Malmö (Scania).—Kurek, C.
 Maloarkhangelsk (Orel Gov.).—Derjavin,
 A. N.
 Maltese Is.—Cooke, J. H.
 Malvern Hills.—Callaway, C.; Groom,
 T. T.; Moore, H. C.; Piper, G. H.
 Mammalia, correlation of European &
 American Tertiary horizons.—Osborn,
 H. F.
 —, Cretaceous.—Ameghino, F.
 —, Quaternary.—Angelis d'Ossat, G.
 de; Bate, D. M. A.; Blanford, W.
 T.; Botti, U.; Chantre, E.; Coraini,
 E.; Cragin, F. W.; Gidley, J. W.;
 Grandidier, G.; Harlé, E.; Hepburn,
 D.; Hughes, T. McK.; Lydekker, R.;
 Major, C. I. F.; Middleton, W. G.,
 &c.; Merriam, J. C.; Miller, G. S.,
 Jun.; Nehring, A.; Nordenskjöld,
 Baron A. E. von; Otway, A. L.; Owen,
 Sir R.; Pallary, P.; Ricci, A.; Rørig,
 A.; Schröder, H.; Seeley, H. G.;
 Sheppard, T.; Simpson, J., &c.; Ste-
 fano, G. de; Stehlin, H. G.; Studer,
 T.; Tournouer, A.; Volz, W.; Wood-
 worth, J. B.; Wuest, E.
 —, secondary sexual characters of.—
 Major, C. I. F.
 —, skull-articulation of.—Coraini, E.
 —, teeth of.—Gaudry, A.
 —, Tertiary.—Abel, O.; Ameghino,
 F.; Andrews, C. W.; Beadnell, H. J.
 L.; Brown, A. E.; Delheid, E.; Del
 Prato, A.; Depéret, C.; Dubois, E.;
 Flores, E.; Gaudry, A.; Grandidier,
 G.; Kinkelin, F.; Laube, G. C.; Ma-
 jor, C. I. F.; Merriam, J. C.; Miller,
 G. S.; Omboni, G.; Osborn, H. F.;
 Spencer, B.; Stehlin, H. G.; Storms,
 R.; Tims, H. W. M.; Venukov, P. N.;
 Wortman, J. L.; Wuest, E.; Zelizko,
 J. V.
Mammillatus-zone.—Davies, A. M.
 Mammoth-ivory.—Lydekker, R.
 —, Norfolk.—Hughes, T. McK.
 —, Siberia.—Anon., 51; Lucas, F. A.;
 Ricci, A.
 —, See also *Elephas*.
 Man, antiquity of.—Bennett, F. J.;
 Holmes, W. H.; Upham, W.
 —, Argentina.—Moreno, F. P.
 —, descent of.—Dubois, E.; Hæckel,
 E.; Munro, R.
 —, Eolithic.—Bennett, F. D.; Bullen,
 R. A.; Howorth, Sir H. H.; Jones,
 T. R.; Watson, J. A.
 —, Mediterranean prehistoric.—Cooke,
 J. H.
 —, Neolithic & Palæolithic.—Conil,
 P. A.; Howorth, Sir H. H.; Walker,
 R. H.; Watson, J. A.
 —, Palæolithic drawings.—Capitan,
 L., &c.; Rivièrè, E.
 Man, Quaternary.—Bate, D. M. A.;
 Chantre, E.; Herdman, W. A.; Ru-
 tot, A.
 —, Rhône valley.—Chantre, E.
 —, Tertiary.—Brown, A. E.; Delgado,
 J. F. N.; Rutot, A.
 Man (Isle of).—Gill, —; Harrison, S.
 N.; Kewley, J.; Kermode, P. M. E.;
 Kitto, W. H.; Lomas, J.
 Manchester (Lancs).—Davison, C.;
 Dickinson, J.
 —, (—) Museum.—Hobson, B.
 Manganese, Austria-Hungary.—John, C.
 von, &c.
 —, Brazil.—Birkinbine, J.; Derby, O.
 A.; Scott, H. K.
 —, Cuba.—Birkinbine, J.; Chibas, E.
 J.
 —, Ekaterinoslav.—Sokolov, N.
 —, France.—Lacroix, A.; Launay, L.
 de.
 —, Hesse.—Delkeskamp, R.
 —, Madagascar.—Lacroix, A.
 —, Sardinia.—Rimatori, C.
 —, Transylvania.—Ebbeke, K., &c.
 —, United States.—Birkinbine, J.
 Manganite.—Zambonini, F.
 Manganosphaerite.—Busz, K.
Mangilia.—Clark, W. B., &c.; Oppen-
 heim, P.
 Mango I. (Fiji).—Andrews, E. C.
 Manica goldfield (E. Africa).—Sawyer,
 A. R.
 Manitoba (Canada).—Tyrrell, J. B., &c.
Manlius-limestone.—Grabau, A. W.
Manticoceras.—Clarke, J. M.
 Maple-trees, Eocene.—Langeron, —.
 Maps, agrogeological.—Hazard, J.; Keil-
 hack, K.; Stella, A.
 —, early Irish geological.—Cole, G.
 A. J.
 —, European International Geological.
 —Beyschlag, F.
 —, strike.—Lomas, J.

MAPS.

AFRICA (EQUATORIAL).

- Central Lake District, 1 inch = 50
 miles, & Lake Tanganyika, 1 inch
 = 60 miles. 1901.—Fergusson, M.

AFRICA (NORTH).

- Algeria. Matmatas massif. $\frac{1}{200,000}$
 1900.—Ficheur, E.
 Egypt. Kharga Oasis. $\frac{1}{500,000}$ 1901.
 —Ball, J.
 —, Nile to Red Sea (Kenah).
 1 inch = 11 miles. 1901.—Fraas,
 E.
 —, — (—). 1 inch =
 40 miles; & Environs of Kenah,
 1 inch = 14 miles. 1901.—Barron,
 T., &c.
 —, Sinai Peninsula. 1 inch = 10
 miles. 1901.—Hume, W. F.

AFRICA (NORTH).

Egypt (Upper). Nile Valley. Far-shut to Koom Ombo. $\frac{1}{200,000}$. 1901.

—Schweinfurth, G.

AFRICA (SOUTH).

Natal Coalfields. 1 inch = 5 miles.

1900.—Heslop, W. T.

Transvaal. Witwatersrand. 1 inch = 25 miles. 1901.—Penning, W. H.

AMERICA (CENTRAL).

Panama. 1 inch = 35 miles. 1901.

—Hershey, O. H.

West Indies. Haiti. $\frac{1}{75,000}$ & $\frac{1}{100,000}$. 1901.—Tippenhauer, L. G.

AMERICA (NORTH).

Alaska (*various*). 1900.—Brooks, A. H.

—Cape Nome. 1 inch = $1\frac{3}{4}$ miles. 1900.—Schrader, F. C.

—Sushitna R. 1 inch = 10 miles. 1900.—Eldridge, G.

—(S.W.) (*various*).—Spurr, J. E.

Niagara River. 1 inch = 1 mile.

1901.—Grabau, A. W., &c.

CANADA. Geological Survey.

664. Manitoba, Saskatchewan, and Keewatin (Lake Winnipeg). 1 inch = 8 miles.—Tyrrell, J. B., &c.

665. Province of Quebec (Three Rivers sheet). 1 inch = 4 miles. 1901.—Ells, R. W.

676. British Columbia and Alberta. 1 inch = 8 miles. 1901. McEvoy, J.

—Baffin Land. 1 inch = 25 miles. 1901.—Bell, R., &c.

—Montreal. Shefford Mt. $\frac{5}{8}$ inch = 1 mile. 1901.—Dresser, J. A.

—Ontario. Michipicoten R. Huronian. 1900.—Willmott, A. B.

—(N.W.). Klondyke Goldfields. 1 inch = 4 miles. 1900.—Meiklejohn, J.

—(—). Yukon Territory. 1 inch = 30 miles. 1898.—Trimmer, F. M.

MEXICO. Rhyolite - occurrence. $\frac{1}{10,000,000}$. 1900.—Ordóñez, E.

UNITED STATES. Geological Survey. Geologic Atlas. $\frac{1}{125,000}$.—WALCOTT, C. D. (Director), &c.

Folio 59. Bristol (Va.). 1899.

60. La Plata (Colo.). 1899.

61. Monterey (Va.). 1899.

62. Menominee (Mich.). $\frac{1}{62,500}$. 1900.

63. 'Mother Lode' District (Cal.). $\frac{1}{62,500}$. 1900.

64. Uvalde (Tex.). 1900.

65. Tintic Mts. (Utah). $\frac{1}{5,000}$. 1900.

66. Colfax (Cal.). 1900.

67. Danville (Ill.). $\frac{1}{62,500}$. 1900.

68. Walsenburg (Colo.). 1900.

AMERICA (NORTH).

UNITED STATES. Geological Survey. Geologic Atlas.

Folio 69. Huntington (W. Va.). 1900.

70. Washington (D.C.). $\frac{1}{62,500}$. 1900.

71. Spanish Peaks (Colo.). 1901.

—Mineral Districts Surveys, 1879–1900. 1 inch = 115 miles. 1900.—Walcott, C. D.

—Arkansas (*various*). 1901.—Branner, J. C.

—Magnet Cove. $1\frac{3}{4}$ inches = 1 kilom. 1900.—Washington, H. S.

—California. Monterey Co. $\frac{3}{4}$ inch = 20 miles. 1901.—Nutter, E. H.

—(Central & South). Oilfields. 1 inch = 80 miles. 1901.—Lakes, A.

—Colorado. Cripple-Creek District. 1 inch = 2 miles. 1901.—Lakes, A.

—Oilfields. 1 inch = 69 miles. 1901.—Lakes, A.

—Dakota. Black Hills. 1 inch = 12 miles. 1899.—Ward, L. F., &c.

—Georgia. Bauxite - Deposits. 1 inch = $7\frac{1}{2}$ miles. 1901.—Watson, T. L.

—Idaho (*various*). 1900.—Lindgren, W.

—Indian Terr. Lehigh. 1 inch = 1 mile. 1899.—Taff, J. A.

—McAlester. 1 inch = 2 miles. 1899.—Taff, J. A.

—Indiana. Esker Lakes. 1901.—Dryer, C. R.

—Trenton Rock Oil-District. 1 inch = 2 miles. 1901.—Blatchley, W. S.

—Silver Creek. 1 inch = 2 miles. 1901.—Blatchley, W. S.

—Worth Co. 1 inch = 2 miles. 1900.—Williams, I. A.

—Iowa. 1 inch = about 32 miles. 1900.—Calvin, S.

—Cedar Co. (drift & solid). 1 inch = 2 miles. 1901.—Norton, W. H.

—Clay & O'Brien Cos. 1 inch = 2 miles. 1901.—Macbride, T. H.

—Dickinson Co. 1 inch = 2 miles. 1900.—Macbride, T. H.

—Drift-areas. 1 inch = 18 miles. 1901.—Calvin, S.

—Dubuque Co. 1 inch = 2 miles. 1900.—Calvin, S., &c.

—Louisia Co. (drift & solid). 1 inch = 2 miles. 1901.—Udden, J. A.

AMERICA (NORTH).

- UNITED STATES. Iowa. Lyon Co.
1 inch = 2 miles. 1900.—Wilder,
F. A.
—, —, Marion Co. 1 inch =
2 miles. 1901.—Miller, B. L.
—, —, Osceola Co. 1 inch =
2 miles. 1900.—Macbride, T. H.
—, —, Page Co. 1 inch =
2 miles. 1901.—Calvin, S.
—, —, Sioux Co. 1 inch =
2 miles. 1900.—Wilder, F. A.
—, —, Kansas. Blue Valley. 1 inch
= 8 miles. 1900.—Beede, J. W.
—, —, Lyon Co. [No scale.]
1901.—Smith, A. J.
—, —, Marshall Co. Blue-
Valley Permian. 1 inch = 8 miles.
1900.—Beede, J. W.
—, —, & Nebraska, Dakota-
Sandstone outcrop. [No scale.]
1901.—Gould, C. N.
—, —, Maine. Aroostook Co. 1 inch
= 12 miles. 1900.—Gregory, H. C.
—, —, Maryland. 1 inch = 23 miles.
1901.—Clark, W. B.
—, —, Alleghany Co. $\frac{1}{62,500}$
1900.—Clark, W. B., &c.
—, —, Cecil Co. [No scale.]
1901.—Leonard, A. G.
—, —, Massachusetts. Boston District
(various). 1900.—Crosby, W. O.
—, —, Brookline, &c., Mela-
phyre. $\frac{3}{4}$ inch = $\frac{1}{2}$ mile. 1901.—
Burr, H. T.
—, —, Minnesota (various). 1901.—
Winchell, N. W., &c.
—, —, Montana. Little Belt Mts.
1 inch = 4 miles. 1900.—Weed,
W. H.
—, —, New Jersey (various). 1901.
Kuemmel, H. B.; Myers, W. S.
—, —, New York State. 1 inch = 24
miles. 1898.—Merrill, F. J. H.
—, —, (various). 1899.—Kemp,
J. F., &c.
—, —, 'Finger Lakes.' [No
scale.] 1899.—Watson, T. L.
—, —, Frankfort Hill (Her-
kimer Co.). 1 inch = 1 mile. 1899.
—White, T. G.
—, —, Lake-Placid Region. $\frac{1}{62,500}$
1899.—Kemp, J. F.
—, —, Oneida & Lewis Cos.
1 inch = $2\frac{1}{2}$ miles. 1899.—White,
T. G.
—, —, (Central & Eastern).
1 inch = 5 miles. 1899.—Prosser,
C. S.
—, —, (N.). Salt-wells Dis-
tricts. 1 inch = 16 miles. 1899.—
Luther, D. D.
—, —, (—). Potsdam & pre-
Cambrian Boundary. 1 inch = 5
miles. 1899.—Cushing, H. P.
—, —, Oklahoma. [No scale.] 1901.
—Adams, G. S.

AMERICA (NORTH).

- UNITED STATES. Oklahoma. Wichita
Mts. 1 inch = about 12 miles.
1901.—Bain, H. F.
—, —, Pennsylvania. Lehigh Co.
 $\frac{3}{8}$ inch = 6400 feet. 1900.—Hop-
kins, T. C.
—, —, Vermont. Bird Mt. 1 inch =
1 mile. 1900.—Dale, T. N., &c.
—, —, Virginia. Richmond Coal-Basin.
1 inch = 6 miles. 1901.—Wood-
worth, J. B.
—, —, Washington, Cascade Mts. 1 inch
= 20 miles. 1900.—Russell, I. C.
—, —, Wisconsin. Clays. 1 inch =
22 miles. 1901.—Buckley, E. R.
—, —, Douglas Co. 1 inch =
1 mile, & 1 inch = 4 miles. 1900.—
Grant, U. S.
—, —, (S.). 1 inch = 15 miles.
1900.—Wiedman, S.
—, —, Illinois & Iowa lead-
regions (various). 1901.—Libby, O.
G., &c.
—, —, Wyoming (S.E.). $1\frac{1}{2}$ inches =
24 miles. 1900.—Knight, W. C.

AMERICA (SOUTH).

- ARGENTINA. Buenos Aires. La
Plata. Sierra de la Ventana $\frac{1}{200,000}$
1901.—Hauthal, R.
BRAZIL. Bahia. 1 inch = 225 miles.
1901.—Branner, J. C.
DUTCH GUIANA, $\frac{1}{500,000}$ 1901.—Du
Bois, G. C.

ARCTIC.

- GREENLAND (N.E.). $\frac{1}{2,000,000}$ 1901.—
Nathorst, A. G.
KING CHARLES'S LAND. $\frac{1}{250,000}$
1901.—Nathorst, A. G.

ASIA.

- CEYLON. Kandy. 1 inch = 16 miles.
1901.—Parkinson, J.
CHINA. Chi-Li. $\frac{1}{500,000}$ 1901.—Vogel-
sang, K.
—, —, K'ai-P'ing coalfield,
1 inch = $4\frac{1}{2}$ miles. 1901.—Drake,
N. F.
—, —, Ling-Shan. 1 inch =
4 miles. 1901.—Drake, N. F.
—, —, Wang-P'ing. 1 inch =
about 3 miles. 1901.—Drake, N. F.
—, —, Coalfields (various). 1901.—
Leprince-Ringuet, F.
—, —, Shansi, Tsè-Chou. 1 inch =
3 miles. 1901.—Drake, N. F.
INDIA. Baluchistan Desert. 1 inch =
16 miles. 1901.—Vredenburg, E.
—, —, Koh-i Sultan and neigh-
bouring Volcanoes. 1 inch = 4 miles.
1901.—Vredenburg, E.
—, —, Kathiawar. Junagarh. 1 inch
= 1 mile. 1901.—Evans, J. W.
—, —, Madras Presidency. Coimba-
tore (N.) Hadabanatta workings,
1 inch = 30 feet. 1901.—Hayden,
H. H.
—, —, Salem. 1 inch = 4 miles.
1900.—Holland, T. H.

ASIA.

INDIA. Madras Presidency. Wainad (S.E.). 1 inch=4 miles, &c. 1901.—Hayden, H. H., &c.

—Mysore. Kolar Goldfield. 1 inch=4 miles. 1901.—Hatch, F. H.

— — —. 1 inch=4 miles & 1 inch=1 mile. 1901.—Smeeth, W. F.

—Rewah State. Son R. 1 inch=4 miles. 1901.—Oldham, R. D.

JAPAN. Imperial Geological Survey $\frac{1}{250,000}$ map.

Zone 1, Col. 4. 1901.—Otsuka, S.

Zone 2, Col. 4. 1901.—Otsuka, S.

Zone 4, Col. 5. 1901.—Inoue, K.

Zone 5, Col. 3. 1901.—Otsuka, S.

—, Col. 6. 1901.—Sagawa, E.

Zone 7, Col. 6. 1901.—Yamagami, M.

Zone 11, Col. 9. 1901.—Suzuki, T.

Zone 13, Col. 11. 1901.—Nakashima, K.

Zone 16, Col. 12. 1901.—Sagawa, E.

SIBERIA. Tomsk. Somskaia, &c. 1 inch=about 8 miles. 1901.—Derjavin, A., &c.

ASIA MINOR.

Anatolia, $\frac{1}{2,000,000}$. 1901.—Schaffer, F.

Armenia & Persia. $\frac{1}{400,000}$. 1900.—

Frech, F., &c.

ATLANTIC (NORTH). Oceanic Deposits. [No scale.] 1901.—Peake, R. E., &c.

AUSTRALASIA.

AUSTRALIA (South). Tarcoola Goldfield. 1 inch=8 miles. 1901.—

Brown, H. Y. L.

AUSTRALIA (Western). 1 inch=120 miles. 1901.—Maitland, A. G.

—(—). Bardoc, 1 inch=28 chains; Donnybrook, 1 inch=28 chains; Kanowna, 1 inch=44 chains & 1 inch=6 chains; Mulgarrie, 1 inch=28 chains. 1900.—Blatchford, T.

—(—). Collie Coalfield. 1 inch=4 miles. 1901.—Maitland, A. G.

—(—). Coolgardie. 1 inch=1 mile. 1901.—Maitland, A. G., &c.

—(—). Greenbushes Tinfield. 1 inch=44 chains. 1900.—Maitland, A. G.

—(—). Irwin Coalfield. 1 inch=3½ miles. 1901.—Maitland, A. G., &c.

—(—). Northampton. 1 inch=1¼ miles. 1901.—Maitland, A. G., &c.

—(—). Phillips River. ½ inch=150 chains. 1900.—Blatchford, T.

NEW SOUTH WALES (various). 1901. Pittman, E. F.

—Hillgrove Goldfield. 4 inches=1 mile. 1900.—Andrews, E. C.

—Iron-ore Deposits (various). 1901.—Jaquet, J. B.

AUSTRALASIA.

NEW SOUTH WALES. Mittagong. 2 inches=1 mile. 1901.—Jaquet, J. B.

—Mt. Kosciusko. 1 inch=¾ mile, & 1 inch=4 miles. 1901.—David, T. W. E., &c.

—Williams & Karuah Rivers. 1 inch=1 mile. 1901.—Jaquet, J. R.

—Wingello. 2 inches=1 mile. 1901.—Jaquet, J. B.

NEW ZEALAND. Chatham I., &c. $\frac{1}{500,000}$ & $\frac{1}{300,000}$. 1901.—Dieseldorff, A.

—Coromandel Goldfield, 1 inch=½ mile. 1900.—Maclaren, J. M.

—South Island. 1 inch=56 miles. 1901.—Hitchcock, C. H.

QUEENSLAND. Clermont Coalfield. 4 inches=1 mile, & 2 inches=1 mile. 1900.—Dunstan, B.

—Cloncurry Copper District. 1 inch=4 miles. 1900.—Cameron, W. E.

—Etheridge and Gilbert Goldfields. 1 inch=4 miles. 1901.—Cameron, W. E.

—Ravenswood Goldfield, 1 inch=2 miles, & 1 inch=¼ mile. 1900.—Maclaren, J. M.

—(North-western), 1 inch=40 miles. 1901.—Cameron, W. E.

TASMANIA. Mount Lyell. 1 inch=3 chains. 1901.—Daly, H. J.

VICTORIA. Melbourne (Yarra R.). 1 inch=20 chains. 1901.—Kitson, A. E.

—Mount Prospect. 1 inch=55 miles. 1901.—Hunter, S.

EUROPE.

(NORTHERN). Loess-deposits. 1899.—Geikie, J.

ENGLISH CHANNEL. Straits of Dover (various). 1899.—Gosselet, J.

NORTH-SEA Deposits. 1901.—Van Mierlo, C. J.

AUSTRIA-HUNGARY. K.-k. geologische Reichsanstalt. Geologische Spezialkarte. $\frac{1}{75,000}$.

S.W. Gruppe, no. 71. Oberdrauburg. 1901.—Geyer, G.

S.W. Gruppe, No. 121. Kistanje. 1901.—Kerner, F. von.

—Bohemia, Potenstein a. d. Adler. $\frac{1}{50,000}$. 1900.—Hinterlechner, K.

—Brown-Coal Areas. 1 inch=50 miles. 1901.—Stirling, J.

—Galicia. Carpathians. $\frac{1}{1,150,000}$. 1901.—Windakiewicz, E.

—Goritz. Bača Valley. $\frac{1}{500,000}$. 1901.—Kossmat, F.

—HUNGARY. Budapest (Alt-Ofen). $\frac{1}{25,000}$. 1900.—Horusitzki, H.

—Dobschau. $\frac{1}{25,000}$. 1901.—Voit, F. W.

— — —. Erzgebirge [Siebenbürgen]. $\frac{1}{500,000}$. 1901.—Gæbert, C.

EUROPE.

- AUSTRIA-HUNGARY. HUNGARY.
Tatra Mts. $\frac{1}{75,000}$ 1901.—Uhlig, V.
— Ugh-Thal. Luh. $\frac{1}{75,000}$.
1900.—Gesell, A.
— Zemplin Com., Kriva-
Olyka, & Habura-Mikova. $\frac{1}{75,000}$.
1900.—Adda, K. von.
— Transylvania, Nagyág
district, 1901.—Semper, M.
— Retyezát district.
1901.—Schafarzík, F.
— Moravia. Borry. $\frac{1}{150,000}$ 1901.
— Süss, F. E.
— Salzburg. Radstädt. $\frac{1}{75,000}$ 1901.
— Frech, F.
— Tyrol. Predazzo, &c. $\frac{1}{25,000}$.
1901.—Huber, O. von.
— Vorarlberg Alps. $\frac{1}{500,000}$.
1901.—Blaas, J.
— Tyrol (S). Dolomite Alps. $\frac{1}{300,000}$.
1901.—Blaas, J.
BELGIUM. Liège. Vielsam. $\frac{1}{20,000}$.
1901.—Lohest, M., &c.
— Mer moséenne. $\frac{1}{1,200,000}$ 1900.—
Mourlon, M.
— Namur. Lesse Valley [No
scale.] 1901.—Dorlodot, H. de.
FINLAND. Geological Survey. No. 36.
Rautus. $\frac{1}{400,000}$ & $\frac{1}{200,000}$ 1900.—Berg-
hell, H.
— No. 37. Pyhäjärvi. $\frac{1}{400,000}$
& $\frac{1}{200,000}$ 1900.—Berghell, H.
FRANCE. Allier. Saint Éloi coal-
field. 1901.—Launay, L. de.
— Alpes-Maritimes. $\frac{1}{50,000}$ 1901.—
Dollfus, G.
— Les Escragnolles. $\frac{1}{40,000}$
& $\frac{1}{80,000}$; also Collette de Clars $\frac{1}{5,000}$.
1901.—Guébbard, A.
— Auvergne. Limagne. $\frac{1}{320,000}$.
1901.—Launay, L. de.
— Aveyron. Decazeville. $\frac{1}{100,000}$.
1900.—Bergeron, J., &c.
— Basses-Alpes. Maurin. $\frac{1}{100,000}$.
1901.—Zaccagna, D.
— Brittany. Crozon. $\frac{1}{80,000}$ &
 $\frac{1}{160,000}$ 1899 & 1901.—Kerforne,
F.
— Hérault. Causse de Pompignan.
 $\frac{1}{200,000}$ 1900.—Roman, F.
— Jura, Serre Massif. $\frac{1}{100,000}$ & $\frac{1}{400,000}$.
— Deprat, J. F. G.
— Loire Coalfield (various). 1899.
— Coste, E.
— Lorraine. Briey Basin. $\frac{1}{200,000}$.
1901.—Rolland, G.
— Nivernais. Bouble Coalfield.
 $\frac{1}{80,000}$ 1901.—Anglès-Dauriac, —.
— Nord. Jenlain. $\frac{1}{20,000}$ 1901.—
Ladrière, J.
— Orne. La Ferrière aux Étangs.
 $\frac{1}{100,000}$ 1901.—Pralon, L.
— Provence. Chaîne de la Nerthe.
 $\frac{1}{120,000}$ & $\frac{1}{80,000}$ 1900.—Répelin, J.

EUROPE.

- FRANCE. Rhône. Chessy & Sain-Bel.
1 inch = 3 km. 1901.—Launay, L.
de.
— Savoy. Massif du Mont-Blanc.
 $\frac{1}{50,000}$ 1901.—Duparc, L., &c.
— Mt. Jovet. $\frac{1}{75,000}$ 1901.
— Zaccagna, I. D.
— Seine Basin. $\frac{1}{500,000}$ 1900.—Doll-
fus, G. F.
— Seine & Loire Basins. $\frac{1}{2,000,000}$.
1901.—Dollfus, G. F.
— Calcaire de Beauce. $\frac{1}{5,000,000}$.
1900.—Dollfus, G. F.
— Sables de la Sologne.
 $\frac{1}{5,000,000}$ 1900.—Dollfus, G. F.
— Seine-et-Oise. Étampes. $\frac{1}{100,000}$.
1900.—Dollfus, G. F.
— Vosges. 1 inch = 55 miles.
1901.—Bleicher, M. G.
GERMANY. Brown-Coal Areas. 1 inch
= 50 miles. 1901.—Stirling, J.
— Culm-Measures. 1 inch = 66
miles. 1901.—Ussher, W. A. E.
— Baden. Geologische Special-
karte. Haslach. $\frac{1}{25,000}$ 1901.—
Thuerach, H.
— Wehra Valley. $\frac{1}{25,000}$.
1901.—Erdmannsdorffer, O. H.
— Bavaria. Frankonian Salt-
District. $\frac{1}{400,000}$ 1901.—Thuerach,
H.
— Harz. Elbingerode. $\frac{1}{30,000}$.
1901.—Solger, F.
— Goslar & Zellerfeld.
 $\frac{1}{40,000}$ 1901.—Beushausen, L.
— Hesse. Geological Survey. $\frac{1}{25,000}$.
Beerfelden. 1901.—Klemm, G.
Kelsterbach. 1901.—Klemm, G.
Lindenfels. 1901.—Chelius, C.
Neunkirchen. 1901.—Chelius, C.
— Frankenberg & Wolkers-
dorf. $\frac{1}{71,428}$ 1901.—Denckmann, A.
— Gilsabergen. $\frac{1}{25,000}$ 1901.
— Denckmann, A.
— Hohelohr. $\frac{1}{25,000}$ 1901.
— Denckmann, A.
— Kellerwald. $\frac{1}{2,000}$ 1900,
& $\frac{1}{100,000}$ 1901.—Denckmann, A.
— Lippe-Horn district of the
Teutoburger Wald. $\frac{1}{100,000}$ 1900.—
Stille, E.
— Lorraine. Klein-Rosseln. $\frac{1}{10,000}$.
1900.—Liebheim, E.
— Saarbrücken. $\frac{1}{10,000}$ &
 $\frac{1}{80,000}$ 1900.—Liebheim, E.
— Pomerania. Norenberg. $\frac{1}{250,000}$.
1901.—Wahnschaffe, F.
— Prussia (East). Königsberg.
 $\frac{1}{25,000}$ & $\frac{1}{50,000}$ & $\frac{1}{200,000}$ 1900.—Jentzsch,
A.
— (East & West). Secondary
and Tertiary Rocks. $\frac{1}{1,000,000}$ 1900.
— Jentzsch, A.

EUROPE.

GERMANY. Prussian Silesia. Glatz.

 $\frac{1}{50,000}$ 1900.—Dathe, E.— Rhenish Prussia. Sieben-
gebirge. $\frac{1}{25,000}$ 1901.—Laspeyres,
H.— (N.). Glacial Deposits. $\frac{1}{3,000,000}$
1901.—Wahnschaffe, F.— Saxony. Freiberg & Brand.
 $\frac{1}{25,000}$ 1901.—Mueller, H.

GREAT BRITAIN AND IRELAND.

BRITISH IS. Pendleside Group. [No
scale.] 1901.—Hind, W., &c.ENGLAND AND WALES. England
(S.E.). 1 inch = 11 miles. 1901.
—Van Ysendyck, P.— (S.W.). Culm-Measures.
1 inch = 40 miles. 1901.—Ussher,
W. A. E.— Anglesey. Mynydd-y-garn.
3 inches = 1 mile. 1901.—Matley,
C. A.— Cheshire. Oxtan. 6 inches =
1 mile. 1901.—Beasley, H. C.— Cotteswolds (N.). 1 inch =
4 miles. 1901.—Buckman, S. S.— Derbyshire. Swadlincote (W.
of). 2 inches = 1 mile. 1900.—
Fox-Strangways, C.— Devon. Prawle & Bolt Pts.
District. 1 inch = 6 miles. 1901.
—Ussher, W. A. E.— Dorset. Coast from White
Nothe & Lulworth Cove to Wor-
barrow Bay. 6 inches = 1 mile.
1901.—Rowe, A. W.— Upway. 6 inches =
1 mile. 1901.—Reid, C.— Essex. Sub-Tertiary Contour
of the Chalk. 1 inch = 10 miles.
1901.—Thresh, J. C., &c.— Geological Survey. 1-inch
Map, n. s. 187. Huntingdon (Drift),
1901.—Cameron, A. C. G., &c.— Vertical Sections,
1 inch = 100 feet. Sheets 83 & 84.
Glamorganshire Shafts. 1900.—
Strahan, A., &c.— Gloucestershire. Tortworth.
1 inch = 3 miles. 1901.—Morgan,
C. Ll., &c.— Herefordshire. Ledbury District
& S.W. Malvern Hills. 2 inches =
1 mile. 1896.—Piper, G. H.— & Worcestershire. S. Mal-
vern Hills. 4 inches = 1 mile.
1900.—Moore, H. C.— Huntingdonshire. St. Ives,
&c. 1 inch = 2 miles. 1901.—
Wedd, C. B.— Leicestershire. Belvoir Hills.
1 inch = $1\frac{1}{2}$ miles. 1901.—Percy,
R. F.— Tilton. 2 inches =
1 mile. 1900.—Fox-Strangways, C.— & Rutland. 1 inch =
6 miles. 1901.—Elsden, J. V., &c.

GREAT BRITAIN AND IRELAND.

ENGLAND AND WALES. Road-Stones,
distribution of. 1 inch = about
50 miles. 1901.—Greenwell, A.,
&c.— Somerset. Bristol Coalfield,
1 inch = 28 miles, & Vobster, &c.,
1 inch = 1800 feet. 1901.—McMur-
trie, J.— Wiltshire. Mere, &c. 1 inch =
1 mile. 1901.—Jukes-Browne, A.
J., &c.— Yorkshire. 1 inch = 6 miles.
1900.—Seward, A. C.— Adwalton Stone Coal.
1 inch = 1 mile. 1901.—Ashley,
T.— Halifax Hard Coal.
1 inch = 6 miles. 1901.—Ashley,
T.— Malham District.
 $\frac{2}{3}$ inch = 1 mile. 1900.—Kendall,
P. F.— Thorncliffe. 1 inch =
1 mile. 1901.—Foster, H. T.— (E.). 1 inch = 12 miles.
1901.—Reed, F. R. C.IRELAND. Geological Survey. 1-inch
Map.50. Down (islands). 1901.—
Egan, F. W.57. Lisnaska (Fermanagh). 1901.
—Egan, F. W.90. Kells (Meath). 1901.—
McHenry, A.— Igneous Tuffs & Breccias.
1 inch = 55 miles. 1901.—Kilroe,
J. R., &c.SCOTLAND. Argyllshire. Loch Awe,
&c. 1 inch = 4 miles. 1901.—
Hill, J. B.— Kincardineshire. Boy's Hill,
&c. 4 inches = 1 mile, & 20 inches
= 1 mile. 1901.—Barrow, G.— Lanarkshire. Lesmahagow
Coalfield (S.).—Cairncross, J. M.GRECIAN ARCHIPELAGO. Cyclades
Is., $\frac{1}{300,000}$; Magnesian Is. & Skyros, $\frac{1}{300,000}$ 1901.—Philipsson, A.ITALY. R. Ufficio geologico. Carta
geologica della Calabria, $\frac{1}{100,000}$ Sheets
220-222, 228-231, 254, & Sections,
pl. iii. 1901.—See Cortese, E., &c.— Elba (I. of). $\frac{1}{50,000}$ 1885.

— Lotti, B., &c.

— Piedmont. Valsesia. $\frac{1}{150,000}$
1901.—Artini, E., &c.— Umbria. Spoleto District.
1 inch = 8 miles. 1901.—Taramelli,
T., &c.— Venetia. Recoaro & Tretto.
 $\frac{1}{25,000}$ 1901.—Ternquist, A.— (N.). $\frac{1}{800,000}$ 1900.—Sacco, F.NORWAY. $\frac{3}{4}$ inch = 100 kilom. 1900.
—Reusch, H.

EUROPE.

- NORWAY. Norges geologiske Undersøgelse. 25 D. Lillehammer, $\frac{1}{100,000}$. 1899.—Muenster, T.
 —. Christiania. Tönsberg Peat-Bogs. $\frac{1}{100,000}$. 1897.—Stangeland, G. E.
 —. —. City. $\frac{1}{15,000}$. 1898.—Bjærlykke, K. O.
 —. —. Fjord (*various*). 1900.—Brøgger, W. C.
 —. —. Finmark. Varangerfjord. 1 inch = 5 kilom. 1900.—Dal, A.
 —. —. Marble Districts (*various*). 1897.—Vogt, J. H. L.
 —. —. Norrland. Vefsen district. $\frac{1}{4,000}$. 1900.—Vogt, J. H. L.
 —. —. Tromsö Amt. Raised Beaches. $\frac{1}{400,000}$. 1900.—Helland, A.
 —. —. Trondhjem. Værdalen Land-slips. $\frac{1}{50,000}$. 1898.—Friis, J. P.

RUMANIA. Harta geologica gene-

rala. Sheets C VI. 49; C VII. 25; D IV. 50; D VI. 52; D VII. 29. 1 inch = about 4 kilom. 1901.—Stefanescu, G., &c.

- RUSSIA. Ekaterinoslav. Nikopol Manganese District. 1 inch = 5 versts, & 1 inch = 10 versts. 1901.—Sokolov, N.
 —. —. Pokrovskaja. 1 inch = 3 versts. 1900.—Sokolov, N.
 —. —. Neocomian. [No scale.] 1901.—Pavlov, A. V.

- . Orenburg. Mount Magnitnaia. $\frac{1}{21,000}$. 1901.—Morozovich, I.
 —. Perm. Kotchkar. 1 inch = 1 verst. 1900.—Visotzki, N.
 —. Ural Gold Districts. $\frac{1}{4,550,000}$. 1900.—Louis, D. A.

- SPAIN. Andalucia. Malaga. $\frac{1}{400,000}$. 1897.—Gillman, F.
 —. Catalonia. Gerona. San Juan Coal-Basin. $\frac{1}{25,000}$. 1901.—Hupfeld, F.

- SWEDEN. Gotland. Skara. $\frac{1}{500,000}$. 1901.—Munthe, H.

- . —. Vaberget & Botten Lake. $\frac{1}{50,000}$. 1901.—Hedström, H.
 —. Norrbotten. Sarjekfjällen. $\frac{1}{500,000}$. 1901.—Geer, G. de, &c.

- . —. —. $\frac{1}{500,000}$. 1901.—Hamberg, A.

- . —. & Westerbotten Lakes. $\frac{1}{2,000,000}$. 1901.—Ahlenius, K.

- . Småland. $\frac{1}{200,000}$. 1901.—Nordenskjöld, O.

- . Stockholm. Sundbyberg Moraines. $\frac{1}{25,000}$. 1901.—Geer, G. de.

- SWITZERLAND. Aar Massif (eastern). 1901.—Königsberger, J.

- . Bern. $\frac{1}{25,000}$. 1889.—Jenny, F., &c.

- . —. Grindelwald Glacier. $\frac{1}{2,000}$. 1898.—Baltzer, A.

EUROPE.

- SWITZERLAND. Bern. Meiringen. $\frac{1}{50,000}$. 1901.—Lugeon, M.

- . Grisons. Fläscherberg. $\frac{1}{25,000}$. 1900.—Lorenz, T.

- . Unterwalden. Giswyl Stock. $\frac{1}{125,000}$. 1900.—Hugi, E.

- . Valais. St. Maurice. $\frac{1}{50,000}$. 1901.—Lugeon, M.

- . Vaud. Montreux. $\frac{1}{25,000}$. 1901.—Lugeon, M.

- . —. Nyon (Les Gingins). $\frac{1}{25,000}$. 1901.—Eberhardt, B.

- OCEANIA. Fiji Is. Mango I. 4 inches = 1 mile. 1900.—Andrews, E. C.

- . Hawaiian Is. 1 inch = 5 miles. 1900.—Hitchcock, C. H.

- WORLD. Auriferous deposits. [No scale.] 1901.—Levat, E. D.

- Maranoa R. (Queensl.).—Dun, W. S., &c. *Marattia*.—Fritsch, A., &c.

- Marbach (Hesse).—Schalch, F. Marble, Belgian black.—Malaise, C.; Rabozée, —.

- , flow of.—Adams, F. D. —, Greek.—Cordella, A.

- , Landscape.—Woodward, H. B. —, Mexican onyx.—Ordóñez, E.

- , Norwegian.—Anon., 44; Vogt, J. H. L.

- , Transylvanian.—Ebbeke, K., &c. —, Washington (U.S.A.).—Lyon, D. A.

- Marburg (Hesse).—Drevermann, F. Marcasite.—Stokes, H. N.; Hintze, C.;

- Struener, G.; Chester, A. H. *Marchantites*.—Seward, A. C.

- MARCY, O.—Crook, A. H. MARÈS, P.—Ficheur, E.

- Margaret R. (W. Austral.).—May, C. E. *Marginella*.—Nøtting, F.; Oppenheim,

- P.; Steinmann, G. *Marginifera*.—Frech, F., &c.

- Marginulina*.—Egger, J. G.; Clark, W. B., &c.

- Marienbad (Bohemia).—Martin, F. Marine bed in Leycett Coal-Measures,

- new.—Stobbs, J. T. —, deposits, latest upheaval of.—Ochsenius, C.

- Marinula*.—Cossmann, M., &c. Mario, Mte. (Rome).—Namiias, I.

- Mariophis*.—Andrews, C. W. *Mariopteris*.—Kidston, R.; White, D.

- Marls, Indiana lake.—Blatchley, W. S., &c.

- , natural history of.—Davis, C. A. Marmot, Tertiary.—Delheid, E.

- Marne (France).—Leriche, M. Maros Torda Co. (Hungary).—Kalc-

- sinski, A. von. Mars Mts. (Moravia).—Rzehak, A.

- Marsden (Yorks).—Barnes, J., &c. MARSH, O. C.—Beecher, C. E.

- , Collection.—Wortman, J. L. Marshall Is. (Pacific).—Schnee, —.

- Marshite.—Spencer, L. J. *Marsilia*.—Fritsch, A. &c.

- Martesia*.—Dall, W. H.
Martigny (Valais).—Bonard, A.
Martinia.—Kindle, E. M.
Martinique (W. I.).—Spencer, J. W. W.
Maryland (U.S.A.).—Clark, W. B., &c.; Leonard, A. G.; Prosser, C. S.
Masailand (Equat. Africa).—Kuenzli, E.
Masonidium.—Seward, A. C.
Massachusetts (U.S.A.).—Bacon, F.; Burr, H. T.; Crosby, W. O.; Fuller, M. L.; Woodworth, J. B.
Mastodictya.—Hall, J., &c.
Mastodon.—Venukov, P. N.
MATHERON, P.—Depéret, C.
Mathilda, *Melanatria*, & *Melania*.—Oppenheim, P.
Matmatas massif (Algeria).—Ficheur, E.
Mauléon (Basses-Pyrénées).—Stuart-Menteath, P. W.
Marschlosseria.—Ameghino, F.
Mazaruni R. (British Guiana).—Perkins, H. I.
Mecca (Arabia).—Mitchell, C. A.
Medina Sandstone, beach-structure.—Fairchild, H. Le R.
Mediterranean Basin.—Berwerth, F., &c.; Cooke, J. H.; Henkel, L.; Pearson, H. W.
 —, Tertiary deposits.—Huernes, R.
Medlicottia.—Frech, F.
Medlowitz (Moravia).—Rzehak, A.
Medusa, Jurassic.—Huene, F. von.
Medusina.—Fuchs, T.; Huene, F. von.
Medvédtza R. (Russia).—Pavlov, A. V.
Meekella.—Beede, J. W.; Schellwien, E.
Meekoceras.—Tommasi, A.
Megalichthys.—Wellburn, E. D.
Megaladapis.—Major, C. I. F.
Megalaspis.—Lindström, G.
Megalong (N.S.W.).—Bertrand, C. E.
Megalops.—Woodward, A. S.
Megaphyton.—Kidston, R.
Megapora.—Canu, F.
Meiocardia.—Nötling, F.
Meiringen (Bern).—Lugeon, M.
Melanopsis.—Blanckenhorn, M.; Wuest, E.
Melanterite.—Edgren, J. E.
Melaphyre.—Kueppers, E.; Burr, H. T.
Melbourne (Vict.).—Kitson, A. E.; Gregory, J. W.
Meldon (Devon).—McMahon, C. A.
Melfa Valley (Abruzzo).—Cassetti, M.
Melicerita & *Menipea*.—Maplestone, C. M.
Melilite.—Vogt, J. H. L.
Melite.—Zambonini, F.
Mellrichstadt (Bavaria).—Ammon, L. von.
Melongena.—Van den Broeck, E.
Melonite.—Dieseldorff, A.
Melting-points of rocks & minerals.—Delter, C.
Membranipora.—Canu, F.; Clark, W. B., &c.; Maplestone, C. M.; Neviani, A.
Membraniporella.—Canu, F.; Maplestone, C. M.
Menispermities.—Knowlton, F. H.
Menispermophyllum.—Fritsch, A.
Menzies (W. Austral.).—Campbell, W. D.
Mercury, distribution of.—Ingall, E. D.; Parker, E. W.
 —, Mexico.—Collins, H. F.; Mactear, J.
 —, New South Wales.—Carne, J. E.; Moses, A. J.
Mere (Wilts).—Jukes-Browne, A. J., &c.
Meretrix.—Clark, W. B., &c.; Dall, W. H.
Meristella.—Kindle, E. M.; Peetz, H. von.
Mersey River.—Nares, Sir G. S.
Mesalia & *Metula*.—Clark, W. B., &c.
Mesitite.—Chester, A. H.
Mesochasmoceras.—Foord, A. H.
Mesodon.—Williston, S. W., &c.
Mesolite.—Patton, H. B.
Mesomorpha.—Oppenheim, P.; Vaughan, T. W.
Mesophyllum.—Frech, F., &c.
Mesopodion.—Abel, O.
Mesozoic. See Jurassic, &c.
Messina (Sicily).—Seguenza, L.
Metadoxites & *Microdiscus*.—Crosby, W. O.
Metallic veins, Farmington meteorite.—Farrington, O. C.
Metalliferous deposits. See Ore, Iron, &c.
 — Mining, India. — Evans, J. W.; Sowerby, W.
Metals, rare-earth.—Steele, B. D.
Metamorphic rocks.—Cole, G. A. J.; Huernes, R.; Lakes, A.; Salomon, W.; Weinschenk, E.
 —. See also Igneous rocks.
Metasomatic processes in fissure-veins.—Lindgren, W.
Meteoric iron.—Cohen, E.; Meunier, St.
Meteorites, Alabama.—Merrill, G. P.
 —, Australia (S.).—Goyder, G. A.
 —, Ceylon.—Meunier, St.
 —, chondrite.—Berwerth, F.; Renard, A.
 —, constituents & structure of.—Farrington, O. C.
 —, formation of.—Chamberlin, T. C.
 —, Kansas.—Farrington, O. C.
 —, mechanical metamorphism &. — Renard, A.
 —, Namur.—Van den Broeck, E.
 —, New South Wales.—Baker, R. T.
 —, Persia.—Ward, H. A.
 —, pre-terrestrial.—Farrington, O. C.
 —, stars &.—Suess, E.
 —, Sudan.—Meunier, St.
 —, Sweden.—Høgbom, A. G.
 —, Thuringia.—Luedecke, —.
 —, Zomba (B.C.A.).—Fletcher, L.
Meteorology, geology &.—Anon., 41; Ekholm, N.; Hamner, F. W.; Wright, G. F.

- Metis*.—Dall, W. H.
Metopias.—Guerich, G.
 Metz (Lorraine).—Michel-Lévy, A., &c.
 Meurthe-et-Moselle (Lorraine).—Cavalier, C., &c.; Michel-Lévy, A., &c.; Rolland, G.
 Meuse R. (Namur).—Raulin, V.
 Mexico.—Anon., 25; Böese, E.; Collins, H. F.; Courtis, W. M.; Dumble, E. T.; Eissler, M.; Fitzpatrick, J. J.; Halse, E.; Howarth, O. H.; McCarthy, E. T.; Mactear, J.; Naumann, E.; Ordóñez, E.
 MEYER, C. J. A.—Woodward, H.
 Mezzo, Rocca di (Abruzzo).—Nelli, B.
 Miask (Urals).—Johnsen, A.
 Mica.—Bodenbender, G.; Ingall, E. D.; Maitland, A. G.; Hartley, W. N., &c.; Smith, A. M.; Vogt, J. H. L.; Wells, J. F.
 — schists.—Termier, P.
 — syenite-porphry.—Bjærlykke, K. O.
 Micaceous cross-banding, current-action &c.—Woodworth, J. B.
Michelinia.—Beede, J. W.
 MICHELOTTI Collection. — Angelis d'Ossat, G. de.
 Michigan (U.S.A.).—Grabau, A. W.; Koenig, G. A.; Walcott, C. D., &c.; Winchell, N. H.
 Michipicoten R. (Ont.).—Willmott, A. B.
 Microcline.—Riva, C.; Sioma, J.
Micrococcus.—Renault, B.
Microdictyon, *Microlepidium*, & *Microzamia*.—Fritsch, A., &c.
Microlecitos.—Issel, A.
 Micropegmatite.—Teall, J. J. H.
Microplasma.—Peetz, H. von.
Micropora.—Canu, F.; Maplestone, C. M.; Neviani, A.
Microporella.—Maplestone, C. M.; Neviani, A.
 Microscopic rock-structure. *See* Rocks.
Microstylopus.—Ameghino, F.
Microthyris.—Buckman, S. S.
 Middlesex.—Monckton, H. W.; Salter, A. E.; Whitaker, W.
 Midlands Coalfield.—Clarke, W. J.
 Miersite.—Spencer, L. J.
Miliolina.—Chapman, F.; Egger, J. G.
Millepora.—Oppenheim, P.
 MILLER, H.—Anon., 13.
 MILLER'S law.—Pancbianco, R.
 Millstone Grits.—Hind, W., &c.; Wellburn, E. D.
 Millstones, Hainault.—Cornet, J.
 MILNE-EDWARDS, A.—Dautzenberg, P.
 Minas Geraes (Brazil).—Derby, O. A.
 Minbu (Burma).—Cadell, H. M.
 Mineral constituents of dust & soot.—Hartley, W. N., &c.
 — deposits, recent.—Watson, S.
 —, waters, Austria.—Anon., 30; Kudernatsch, R., &c.
 Mineral waters, baryta in sulphated.—Carles, P.
 —, Belgium.—Six, A.
 —, carbonic acid in.—Launay, L. de.
 —, earthquakes &c.—Gorod, P.
 —, Germany.—Dittrich, M.; Morsbach, —; Rothpletz, A.
 —, origin of.—Dittrich, M.
 —, United States.—Peale, A. C.
 Mineralogy, America (N.), 1899.—Weeks, F. B.
 —, text-books.—Hintze, C.; Moses, A. J., &c.; Zirkel, F.
 Minerals, abrasive, & paint.—Parker, E. W.
 —, Austria-Hungary.—John, C. von, &c.
 —, Bolivian silver.—Roberts, M.
 —, British.—Holmes, W. M.
 —, Canadian.—Hoffmann, G. C.; Ingall, E. D.
 —, gold accompanying.—Collins, H. F.; Rickard, T. A.
 —, Greenland.—Flink, G., &c.
 —, Joplin District.—Rogers, A. F.
 —, melting-points of.—Doelter, C.
 —, microscopical physiography of.—Rosenbusch, H.
 —, Moravia.—John, C. von.
 —, New South Wales.—Moses, A. J.; Pittman, E. F.
 —, Nova Scotia.—Gilpin, E., Jun.
 —, 'opaque.'—Schroeder van der Kolk, J. L. C.
 —, optical determination of.—Koenigsberger, J.; Souza-Brandão, V. de.
 —, rare elements in.—Kraus, E. H.
 —, rock-forming.—Rosenbusch, H.; Souza-Brandão, V. de; Vogt, J. H. L.; Weinschenk, E.
 —, spectrographic analysis of.—Hartley, W. N., &c.
 —, synthesis of.—Liebisch, T.
 —, Tuscan volcanic.—Fantappiè, L.
 —, United States.—Chester, A. H.; Clarke, F. W., &c.; Winchell, N. H.
 —, Victoria (Austral.).—Walcott, R. H.
 —. *See also* Diamonds, &c.
 Mines, Great Britain, &c.—Atkinson, J. B., &c.; Foster, C. Le N., &c.
 —, India.—Reader, G. F., &c.; Stonier, G. A.
 Minette.—Salomon, W.
 Minikoi Atoll (Indian Ocean).—Gardiner, J. S.
 Mining, Cornwall.—Garland, J.
 — Engineering, Geology &c.—Lapworth, C.
 — literature, 1900.—Brown, M. W.
 —. *See also* Ore-Deposits, &c.
 Minnesota (U.S.A.).—Cayeux, L.; Winchell, N. H., &c.
 Minussinsk (Siberia).—Saytzev, A.
 Miocene, Austria (Lower) & Belgium.—Abel, O.
 —, Brittany.—Shunes, J.

- Miocene, Dalmatia.—Dainelli, G.
 —, Italy.—Del Bue, G.; Trabucco, G.
 —, Samos.—Major, C. I. F.
 —, Sylt I.—Stolley, E.
 —. *See also* Tertiary.
Miogypsina.—Dervieux, E.; Schlumberger, C.
Miolania.—Woodward, A. S.
 Mirabilite.—Trechmann, C. O.
 Mirzapur (C. India).—Oldham, R. D., &c.
 Mispickel.—Hintze, C.; Struever, G.
 Mission Coalfield (Ill.).—Anon., 35.
 Mississippi (U.S.A.).—Hilgard, E. W.
 — Basin, Drift.—Hershey, O. H.
 Mississippian, Kansas.—Keyes, C. R.; Porter, F. B.
 Missouri (U.S.A.).—Beecher, C. E.; Brinsmade, R. B.; Crane, W. R.; Eigenmann, C. H.; Gallagher, J. A., &c.; Haworth, E.; Keyes, C. R.; Nason, F. S.; Rogers, A. F.; Rowley, R. R.; Weller, S.
Mitra.—Clark, W. B., &c.; Oppenheim, P.
Mitrocystella.—Jäkel, O.
 Mittagong (N.S.W.).—Jaquet, J. B.
 MOBERG, K. A.—Sederholm, J. J.
Modiola.—Bohm, J.; Greppin, E.; Lorenz, T.; Nøtting, F.; Pritchard, G. B.; Radovanović, S.; Steinmann, G.; Woods, H.
Modiolaria.—Pritchard, G. B.
Modiolopsis.—Grabau, A. W., &c.
Modiolus.—Clark, W. B., &c.
Molliomorpha.—Girty, G. H.; Kindle, E. M.; Whidborne, G. F.
 Moels, origin of.—Marr, J. E.
Mœrtherium.—Andrews, C. W.
 MËSCH, C.—Baltzer, A.
 Mogollon Mts. (N. Mex.).—Weatherby, W. J.
 Mohawk Valley (N.Y.).—Cumings, E. R.
 Mohawkite.—Kœnig, G. A.; Richards, T. W.
 Molasse, upper 'freshwater,' a sea-deposit.—Wuertemberger, T.
 Moldavia (Rumania).—Richly, H.; Simionescu, G.
 Moldavite.—Richly, H.; Suess, F. E.
 Molise (Italy).—Parona, C. F.
 Moll (Belgium).—Lorié, J.; Mourlon, M.; Van Ertborn, Baron O.
 Mollusca, denudation by.—Harlé, E.
 —, non-marine extinct Quaternary.—Newton, R. B.
 —. *See also* Gasteropoda, &c.
 Molucca Is. (D.E.I.).—Bohm, G.; Martin, K.
 Molybdenum.—Bodenbender, G.; Chelius, C.; Pratt, J. H.
 Molybdophyllite.—Flink, G.
 Mona I. (West Indies).—Klein, C.
 Monchiquite.—Evans, J. W.; Gruss, K.; Wright, F. E.
 Mondhaldeite.—Gruss, K.
 Monetite.—Schulten, A. de.
 Monfalcone (Tyrol).—Ludwig, T., &c.
 Mongolia (Asia).—Krahmer, —.
Monilipora.—Angelis d'Ossat, G. de.
 Monkeys, Cretaceous.—Ameghino, F.
 —, teeth of man &.—Gaudry, A.
 —, Tertiary, &c.—Brown, A. E.; Dubois, E.; Major, C. I. F.
Monocraterion.—Matthew, G. F.
Monogenerina.—Spandel, E.
Monophora.—Steinmann, G.
Monopleura.—Douvillé, H.; Schnarrenberger, C.
Monotrypa.—Sardeson, F. W.
 Mons (Hainault).—Cornet, J.; Rutot, A.
 Mont-Blanc Massif.—Duparc, L., &c.
 — Dore (Auvergne).—Bonney, T. G.; Boule, M.; Dannenberg, A.; Sabatini, T.
Montacuta.—Dall, W. H.
 Montagne Noire (Languedoc).—Bresson, —; Depéret, C.
 Moutagnole Plateau (Savoy).—Révil, J.
 Montana (U.S.A.).—Eissler, M.; Lakes, A.; Weed, W. H.
 Montana Formation, flora of.—Knowlton, F. H.
 Monte Nuovo (Vesuvius).—Stefani, C. de.
 Montenegro, glacial traces in.—Vinassa de Regny, P.
Montfortia.—Lebesconte, P.
 Monticuliporidae.—Sardeson, F. W.
 Montigny-sur-Loing (Seine-et-Marne).—Janet, L.
Montlivaultia.—Angelis d'Ossat, G. de.
 Montmorillonite.—Brooking-Rowe, J., &c.
 Montpellier (Hérault).—Roman, F.; Rouville, — de.
 Montreal (Canada).—Ami, H. M.; Buchan, J. S.; Dresser, J. A.; Schuchert, C.
 Montreux (Vaud).—Lugeon, M.
 Montrose (Forfar).—Cornish, V.
 Montserrat I. (W.I.).—Spencer, J. W. W.
 Monzonite.—Weber, M.; Weed, W. H.
 Moose River-basin (Toronto).—Parks, W. A.
 Moraines, history of works on.—Bohm, A. von.
 —, Icelandic, in palagonite-formation.—Pjetursson, H.
 —, Indiana.—Dryer, C. R.
 —, Norway.—Rekstad, J.
 —, origin of.—Blair, M.
 —, Silesia.—Wahnschaffe, F.
 —, Sweden.—Geer, G. de; Hedström, H.
 —, Switzerland.—Baltzer, A.; Bieler, T.
 —, terminal, Finland.—Milthers, V.
 Moravia (Austria).—John, C. von; Newwirth, V.; Rzehak, A.; Söehle, U.; Suess, F. E.; Tietze, E.
 Moray Firth, Scotland.—Mackie, W.
 Morea (Greece).—Woodward, A. S.

- Morio*.—Clark, W. B., &c.
 Morlaix (Finistère).—Coomáráswamy, A. K.
 Mornington (Vict.).—Hall, T. S., &c.
 Morocco (N. Africa).—Friederichsen, M.
Morotherium.—Merriam, J. C.
Morphippus.—Ameghino, F.
Mosasaurus.—Whitfield, R. P.
 Mosbach (Hesse).—Kinkelin, F.
 Moscotah (Kans.).—Knerr, E. B.
 Moscow (Russia).—Rippas, P.
 Moseian.—Lorié, J.; Mourlon, M.; Van Ertborn, Baron O.
 Moselle R. (France).—Lamothe, — de.
 Moslavačka Gora (Croatia).—Kišpatič, M.
 Mossamedes (Angola).—Choffat, P.
 Mount Lyell (Tasmania).—Fawns, S.
 Mountains, origin of.—Bertrand, M.; Geikie, J.; Marr, J. E.
 Mouriscot, Lake (Basses-Pyrénées).—Bergeron, J.
 MOUTARD, —.—Carnot, A.
 Mouthe Cavern (Dordogne).—Rivière, E.
 Mouthoumet Massif (Hautes-Corbières).—Bresson, —.
Mucronella.—Clark, W. B., &c.
 Mud, deposition of.—Wheeler, W. H.
 Mud island, disappearance of, in Walfisch Bay.—Waldron, F. W.
 ——— volcanoes, Burma & Kertch. — Cadell, H. M.
 Mulde (Gotland).—Chapman, F., &c.
 Mulgundawa (S. Austral.).—Tate, R.
 Mullerite.—Zambonini, F.
 Mundesley (Norfolk).—Cornish, V.
 Munich (Bavaria).—Penck, A., &c.
Muniella & *Murinopsis*.—Canu, F.
 Münsterland (Westphalia).—Beykirch, J.
 Münzenberg (Hesse).—Wittich, E.
 Mupe Bay (Dorset).—Strahan, A.
Murchisoniæ-beds, Basel.—Struebin, K.
 ———, Würtemberg.—Huene, F. von.
Murchisonia.—Fliegel, G.; Kindle, E. M.
 Mure Massif (Dauphiné).—Kilian, W.; Lory, P.
Murex.—Nøtling, F.; Oppenheim, P.
 Muschelkalk. *See* Trias.
 Museum, American Natural History.—Whitfield, R. P., &c.
 ———, British (Natural History).—Foley, M. C.; Holmes, W. M.; Jackson, B. D., &c.; Seward, A. C.; Woodward, A. S.
 ———, Caucasus.—Radde, G.
 ———, Comparative Zoology, Harvard College.—Eastman, C. R.; Hyatt, A.; Shaler, N. S.
 ———, Driffeld.—Mortimer, J. R.
 ———, Frankfurt-a.-M.—Wolterstorff, W.
 ———, Geological Society.—Anon., 37.
 ———, Geological Survey.—Allen, H. A.
 ———, Genoa University.—Issel, A.
 ———, Lausanne Geological.—Renevier, E.
 ———, Manchester.—Hobson, B.
 ———, New York State.—Merrill, F. J. H.
 ———, Norwich Castle.—Woodward, H.
 ———, Oxford.—Sollas, I. B. J.
 Museum, Paris School of Mines. — Cayeux, L.
 ———, Peabody, Yale College.—Wortman, J. L.
 ———, Peter Redpath, McGill College.—Penhallow, D. P.
 ———, Pisa.—Fucini, A.
 ———, Queensland.—Morton, A.
 ———, Rome University.—Angelis d'Ossat, G. de.
 ———, Royal College of Surgeons.—Allen, H. A.
 ———, United States National.—Merrill, G. P.
 ———, Walker, Chicago.—Case, E. C.
 ———, Woodwardian.—Huene, F. von; Reed, F. R. C.
Mya.—Rekstad, J.
Myalina.—Beede, J. W.; Kayser, E.
Myas & *Mycetoporus*.—Scudder, S. H.
Mycetoseris.—Angelis d'Ossat, G. de.
Myliobates.—Clark, W. B., &c.; Nøtling, F.
Myiodon.—Nordenskjöld, E.
Mylostoma.—Dean, B.
 Mynydd-y-garn (Anglesey). — Matley, C. A.
Myoconcha.—Peach, B. N., &c.; Woods, H.
Myophoria.—Checchia, G.
Myrica.—Fritsch, A., &c.; Guébard, A., &c.; Knowlton, F. H.
Myricanthium.—Fritsch, A., &c.
Myriozoum.—Neviani, A.
Myrsine.—Deane, H.
Myrsinophyllum.—Fritsch, A., &c.
Mysidioptera.—Philippi, E.; Tommasi, A.
 Mysore (India).—Evans, J. W.; Foote, R. B.; Garland, J.; Hatch, F. H.; Holland, T. H.; Primrose, A.; Sam-basiva Iyer, V. S.; Smeeth, W. F.
Mytilarca.—Girty, G. H.
Mytilus.—Nøtling, F.; Nordenskjöld, E.; Steinmann, G.; Woods, H.
Nageiopsis.—Seward, A. C.
 Nagyag (Transylvania).—Semper, M.
Naiadita.—Sollas, I. B. J.
 Namaqualand (Cape Colony).—Chalmers, J. A.
 Namur (Belgium).—Dorlodot, H. de; Forir, H.; Rahir, E.; Van den Broeck, E.
 Nanjemay Formation.—Clark, W. B., &c.
 Nant Ffranccon (N. Wales).—Greenly, E.
Naosaurus.—Fritsch, A.
 Naples fauna, New York.—Clarke, J. M.
 Nassau (Germany).—Delkeskamp, R.; Fuchs, A.; Kayser, E.; Leppla, A.; Pelikan, A.
 Natal (S. Africa).—Chapman, F., &c.; Exton, H., &c.; Gray, C. J.; Green, S. L.; Heslop, W. T.; Molengraaff, G. A. F.
Nathorstella.—Kayser, E.

- Natica*.—Clark, W. B., &c.; Guerich, G.; Lorient, P. de; Nödling, F.; Oppenheim, P.; Radde, G.; Steinmann, G.; Tate, R.
- Naticopsis*.—Fliegel, G.; Frech, F., &c.; Girty, G. H.; Kindle, E. M.; Tommasi, A.
- Natmandshaugite.—Bjørlykke, K. O.
- Natrolite.—Zambonini, F.
- Nauheim (Hesse).—Lepsius, R.
- Nautilus*.—Clarke, J. M.; Cossmann, M., &c.; Frech, F., &c.; Oppenheim, P.; Reis, O. M.
- Navicula*.—Clerici, E.
- Nebraska (U.S.A.).—Gould, C. N.
- Nebria* & *Neothanes*.—Seudder, S. H.
- Neckar Valley (Baden).—Dittrich, M.
- Nelumbo*.—Knowlton, F. H.
- Neocybeus*.—Lorient, P. de.
- Neocomian, France.—Mercey, N. de; Sayn, G., &c.; Roman, F.
- , Magdeburg.—Richter, P.
- , Russia.—Pavlov, A. V.
- , See also Cretaceous.
- Neogene. See Tertiary.
- Neolithic Man. See Man.
- Nematophycus*.—Fox, H.
- Nematus*.—Fritsch, A., &c.
- Nemorhædus*.—Cragin, F. W.
- Neomylodon*.—Nordenskjöld, E.; Tournouer, A.
- Neostroma*.—Tørnquist, A.
- Neovulpavus*.—Wortman, J. L.
- Nepheline-rocks, Baden.—Gruss, K.
- , Brazil.—Wright, F. E.
- , Canada.—Miller, W. G.
- , Montana.—Weed, W. H.
- , New Zealand.—Dieseldorff, A.
- Nephelinite.—Esch, E.; Romberg, J.
- Nephrite. See Jade.
- Neponset Valley (Mass.).—Bascom, F.
- Neptunea*.—Meli, R.
- Neptunus*.—Nödling, F.
- Neridonus*.—Bohm, G.
- Nerinea*.—Geiger, G.; Lorenz, T.; Schnarrenberger, C.
- Nerita*.—Imkeller, H.
- Neritina*.—Radde, G.
- Neritopsis*.—Bohm, J.; Cossmann, M.; Lorient, P. de; Oppenheim, F.
- Nerthe Massif (Provence).—Bertrand, M.; Repelin, J.
- Nesopithecius*.—Major, C. I. F.
- Netherlands, Scheldt siltling up.—Van der Veer, G. J. G.
- Neuchâtel (Switzerland).—Schardt, H., &c.
- Neuwelt (Basel).—Leuthardt, F.
- Neunkirchen (Hesse).—Chelius, C.
- Neurode (Silesia).—Dathe, E.
- Neuropteris*.—Kidston, R.; White, D.
- Nevada (Cal.).—McCormack, E.; Spurr, J. E.; Weeks, F. B.
- Newberyite.—Hoffmann, G. C.
- New Brunswick (Canada).—Ami, H. M.; Daly, R. A.; Matthews, G. F.; Williams, H. S.
- New Caledonia.—Dun, W. S.; Weinberg, E. A.
- Newcastle (Co. Down).—Andrews, M. K.
- Newfoundland.—Howley, J. P.
- New Guinea.—Wichmann, A.
- Newhouse Tunnel (Colo.).—Lakes, A.
- New Jersey (U.S.A.).—Chester, A. H.; Kuemmel, H. B.; Myers, W. S.; Salisbury, R. D.; Smock, J. C.; Vaughan, T. W.; Weller, S.; Woolman, L.
- Newlands Diamond Mines (Griqualand, W.).—Bonney, T. G.
- New Mexico (U.S.A.).—Lakes, A.; Weatherly, W. G.
- New South Wales.—Anon., 31; Arber, E. A. N.; Baker, R. T.; Browne, D. H.; Coghlan, T. A.; Eissler, M.; Guerich, G.; Jaquet, J. B.; Marshall, A. W.; Moulden, J. C.; Penck, A.; Pittman, E. F.
- New York City (U.S.A.).—American Museum of Natural History. See Museum.
- , State (U.S.A.).—Bishop, I. P.; Clarke, J. M.; Cumings, E. R.; Cushing, H. P.; Grabau, A. W.; Hall, J., &c.; Kemp, J. F., &c.; Luther, D. D.; Merrill, F. J. H.; Miller, G. S., jun.; Orton, E.; Nevius, J. N.; Prosser, C. S.; Ries, H.; Sarle, C. J.; Smyth, C. H., jun.; Stevenson, J. J.; Watson, T. L.; White, T. G.
- , (—), Ontario-Lake Coast. —Martin, J. O.
- New Zealand.—Allen, F. B.; Baker, W. H.; Dieseldorff, A.; Hitchcock, C. H.; Liversidge, A.; MacLaren, J. M.; McLeod, H. N.; Page, S.; Park, J.; Rutley, F.; Tattley, W.; Wylie, W.
- Niagara Falls (N. Am.).—Currie, P. W.; Grabau, A. W., &c.; Grant, C. C.; Upham, W.
- , formation.—Sarle, C. J.
- Nice (Alpes-Maritimes).—Guébbard, A.
- Nichtina*.—Canu, F.
- Nickel, Hungary.—Vogt, F. W.
- Nievole Valley (Tuscany).—Norden-skjöld, A. E. von.
- Nièvre (France).—Anglès-Dauriac, —.
- Nijni-Novgorod (Russia).—Bogoslovski, N. A.
- Nikolajevsk (Siberia).—Bogdanovitch, K., &c.
- Nikopol (Ekaterinoslav).—Sakolov, N.
- Nile Valley (Egypt).—Beadnell, H. J. L.; Fraas, E.; Schweinfurth, G.
- Nileus* & *Niobe*.—Lindstrøm, G.
- Nilghai, Samos Miocene.—Major, C. I. F.
- Nilkoka Beds.—Brooks, A. H.
- Nilssonia*.—Fritsch, A., &c.; Seward, A. C.
- Nipadites*.—Squinabol, S.
- Nippon (Japan).—Jijima, I.

- Niso*.—Clark, W. B., &c.
Nitidula & *Nomaretus*.—Scudder, S. H.
 Nitrates, cavern-earth.—Nichols, H. W.
 —, crystalline rocks with.—Gautier, A.
Nodosaria & *Nonionina*.—Clark, W. B., &c.; Egger, J. G.; Spandel, E.
Nodosus.—Törnquist, A.
 Nodules, sand.—Matézos, C.
 —. See also Concretions.
Naggerathiopsis.—Frech, F.
Nœtlingia.—Lapparent, A. de.
 Nœux (Pas-de-Calais).—Barrois, C.
 Noire, Montagne. See Montagne Noire.
 Nome, Cape (Alaska).—Schrader, F. C., &c.
 Nontronite.—John, C. von.
 Nord (France).—Anon., 23; Gosselet, J.
 NORDENSKJELD, Baron A. E.—Anon., 14; Bather, F. A.; Bruce, W. S.; Nathorst, A. G.
 Nordlingen (Bavaria).—Branco, W., &c.
 Nordmarkite.—Dresser, J. A.
 Norfolk.—Hughes, T. McK.
 Norian.—Bittner, A.
 Norite.—Leonard, A. G.
Norites.—Reis, O. M.
 Normandy (France).—Bigot, C.; Brazil, L.; Cossmann, M., &c.; Houdry, —; Lebesconte, P.; Letacq, A. L.; Lignier, O.; Michel-Lévy, A., &c.; Munier-Chalmas, —.
 Norrbotten Län (Sweden).—Ahlenius, K.; Geer, G. de; Hamberg, A.; Muenthe, H.
 Norrlands Amt (Norway).—Vogt, J. H. L.
 Northamptonshire.—Markham, C. A.; Thompson, B.
 North-Sea deposits.—Gilson, G.; Van Mierlo, C. J.
 Northwich (Cheshire).—Ward, T.
 Norton (Va.).—Fleming, R.
 Norway.—Bjørlykke, K. O.; Bluman, N. J.; Brøgger, W. C.; Dal, A.; Friis, J. P.; Hansen, A. M.; Heland, A.; Hull, E.; Kolderup, C. F.; Muenster, T.; Øyen, W. C.; Rekstad, J.; Stangeland, G. E.; Tørnebohm, A. E.; Vogt, J. H. L.; Wells, J. F.; Wolff, W.
 —. See also Scandinavia, &c.
 Norway (Mich.).—Dickenson, E. S.
 Norwich (Norfolk).—Woodward, H.
Nosotelocus & *Nothopus*.—Scudder, S. H.
Notidanus.—Seguenza, L.
Notogoneus.—Priem, F.; Woodward, A. S.
Notohyrax & *Notostylops*.—Ameghino, F.
Notothyris.—Frech, F., &c.; Schellwien, E.
 Nottinghamshire.—Clarke, W. J.; Gibson, W.
 Nova Scotia.—Ami, H. M.; Daly, R. A.; Fletcher, H.; Gilpin, E., jun.; Haycock, E.; Matthew, G. F.; White, D.
 Nozay (Britanny).—Lebesconte, P.
Nubecularia.—Chapman, F.; Egger, J. G.; Liebus, A.
Nucula.—Beede, J. W.; Clark, W. B., &c.; Dall, W. H.; Kindle, E. M.; Nœtling, F.; Steinmann, G.; Whidborne, G. F.
Nuculana.—Beede, J. W.; Peach, B. N., &c.
Nucleospira.—Kindle, E. M.; Rowley, R. R.
Nummulopatus.—Leriche, M.
 Nummulites.—Martelli, A.; Prever, P.; Schubert, R. J.
Nummulosaurus.—Fritsch, A.
 Nunataks.—Arctowski, H.
 Nyon (Vaud).—Eberhardt, B.
Nyrschania.—Frech, F.
 Oahu (Hawaiian Is.).—Hitchcock, C. H.
 Oases, Egyptian.—Ball, J.
Obolella.—Crosby, W. O.
 Obsidian-bombs.—Baker, R. T.
 — Cliff (Yellowstone).—Parkinson, J.
 — rocks.—Teall, J. J. H.
Ocadia.—Reinach, Baron A. von.
 Oceanic deposits.—Arctowski, H., &c.; Berwerth, F., &c.; Gilson, G.; Peake, R. E.; Renard, A.; Thoulet, J.; Van Mierlo, C. J., &c.
 — floors, evolution of.—Murray, Sir J.
 — salt.—Ackroyd, W.; Van't Hoff, J. H., &c.
 Ochil earthquakes (Perth, &c.).—Davieson, C.
 — Hills (Scotland).—Geikie, Sir A.
 Ochre, Emborough.—Morgan, C. Ll., &c.
Ochotona.—Bate, D. M. A.
 Ocre, Mte. d' (Aquila - Abruzzo). — Schnarrenberger, C.
 Octahedrite.—Cohen, E.
 Octopoda.—Schwarz, E. H. L.
Oculina.—Vaughan, T. W.
 Odenwald (Hesse).—Salomon, W.
Odontaspis.—Clark, W. B.; Sangiorgi, D.; Seguenza, L.; Sokolov, N.
Odontopteris.—Kidston, R.
Odostomia.—Clark, W. B., &c.
Ecotraustes.—Loriol, P. de.
 EHLERT, P.—Löwinson-Lessing, F.
Elaria.—Dean, H.
 Eynhausen hot-spring (Lippe).—Morsbach, —.
 Ofleiden an der Ohm (Hesse).—Schwan-tke, A.
Ogygia.—Bjørlykke, K. O.; Lindström, G.
 Ohio (U.S.A.).—Dean, B.; Prosser, C. S.
 Oil-shale, Fife.—Geikie, Sir A.
 — —, Lothians.—Cadell, H. M.
 — —, New South Wales.—Coghlan, T. A.
 Oise, Dep. (France).—Munier-Chalmas, —.
 Oka R. (Russia).—Bogoslovski, N. A.
 Okhotsk (Siberia).—Bogdanovitch, K., &c.

- Oklahoma (U.S.A.). — Beede, J. W.; Bell, W. T.; Gould, C. N.; White, M.
- Oklahoma-Kansas Red Beds, age of. — Adams, G. I.; Beede, J. W.
- Old Red Sandstone, Scotland.—Elliot, G. F. S., &c.
- Oldfieldthomasia*.—Ameghino, F.
- Oldhamia*.—Cole, G. A. J.; Matthew, G. F.; Schellwien, E.
- Oldhaminia*.—Frech, F.
- Oldhamite.—Vogt, J. H. L.
- Olenellus*.—Crosby, W. O.; Pompeckj, J. F.; Wanner, A.
- Olenian.—Williams, H. S.
- Olenopsis*.—Pompeckj, J. F.
- Olenus*.—Lindström, G.
- Olifant Klip (Transvaal).—Chapman, F., &c.
- Oligocene. *See* Tertiary.
- Oligoclase. *See* Felspars.
- Oligoporus*.—Beede, J. W.
- Oliva*.—Nøtting, F.; Steinmann, G.
- Olivine.—Vogt, J. H. L.; Zambonini, F.
- rocks.—Duparc, L.
- Olivula*.—Clark, W. B., &c.
- OMALIUS D'HALLORY, J. J. d'.—Dupont, E.
- Oman (Arabia).—Milnes, S. B.
- Omphaloptycha*.—Tommasi, A.
- Omphyma*.—Lambe, L. M.
- Oncholichas*.—Guerich, G.
- Onchus* & *Onychodus*.—Prosser, C. S.
- Oncopteris*.—Fritsch, A., &c.
- Oneida Co. (N.Y.).—White, T. G.
- Onohippidium*.—Nordenskjöld, E.
- Ontario (Canada).—Ami, H. M.; Coleman, A. P.; Ells, R. W.; Miller, W. G.; Probert, F. H.; Wilson, A. W. G.
- , Lake, coast (N.Y.).—Martin, J. O.
- Onychiopsis*.—Fritsch, A., &c.; Seward, A. C.
- Onychocella*.—Canu, F.
- Onyx-marble, Mexico.—Ordóñez, E.
- Oödetes*.—Wortman, J. L.
- Oolite, Skye.—Woodward, H. B.
- Oolitic iron.—Amsel, H.; Cavallier, C.; Launay, L. de; Meunier, St.; Rolland, G.
- limestone.—Card, G. W.
- Oonia*.—Bæhm, J.
- Oonocarcinus*.—Frech, F.
- Ooze, Oceanic. *See* Oceanic deposits.
- Opal.—Anon., 31 & 33; Coghlan, T. A.; Guerich, G.; Pittman, E. F.
- Opalinus*-beds, Basel.—Struebin, K.
- Operculina*.—Egger, J. G.; Martelli, A.; Trabucco, G.
- Opetiosaurus*.—Gorjanović-Kramberger, K.
- Ophiderpeton*.—Fritsch, A.
- Ophiolite, Tuscany.—Ristori, G.
- Ophte.—Lacroix, A.; Roessinger, G., &c.
- , gases in.—Gautier, A.
- Ophitic rock-structure.—Ristori, G.
- Opis*.—Cossmann, M.
- Oppelia*.—Loriol, P. de.
- Oran (Algeria).—Ficheur, E.
- Orbiculoidea*.—Beede, J. W.; Kindle, E. M.
- ORBIGNY'S, C. D', Cheilostomata. — Canu, F.
- Orbiquet (Normandy).—Bigot, A.
- Orbitoides*.—Douvillé, H.; Martelli, A.; Martin, K.
- Orbitolina*.—Douvillé, H.; Egger, J. G.
- Orbitolina*-limestone, Oregon. — Cossmann, M.
- Orbitolites*.—Chapman, F.; Trabucco, G.
- Orbitulipora*.—Neviani, A.
- Orcagnia*.—Oppenheim, P.
- Ordovician, Belgium.—Malaise, C.
- , Brittany.—Bézier, T.; Kerforne, F.; Lebesconte, P.
- , Canada.—Ami, H. M.
- , Malvern.—Groom, T. T.
- , New York.—White, T. G.
- *See also* Silurian, &c.
- Ordu (Asia Minor).—Schubert, R. J.
- Ore-deposition.—Van Hise, C. R.
- Ore-deposits, Asia Minor.—Berg, G.; Weiss, K. E.
- , Austria-Hungary.—John, C. von, &c.
- , Canada.—Ingall, E. D.
- , change with country-rock.—Lakes, A.
- , Chile.—Labastie, E.; Varas, I.
- , classification.—Beck, R.; Keyes, C. R.
- , contact-metamorphism &c. — Berg, G.
- , Great Britain, &c.—Atkinson, J. B., &c.; Foster, C. Le N., &c.
- , Hungary.—Gæbert, C.
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- , New South Wales.—Moulden, J. C.; Coghlan, T. A.; Pittman, E. F.
- , occurrence of.—Beck, R.; Eissler, M.
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- , secondary enrichment of.—Emons, S. F., &c.; Keyes, C. R.; Lindgren, W.; Van Hise, C. R.; Weed, W. H.
- , Silesia.—Krusch, P.
- , Spain.—Eissler, M.; Gillman, F.; Jones, J. A.
- , Var.—Lotti, B.
- , United States.—Calvin, S.; Comstock, T. B.; Day, D. T.; Haworth, E.; Lakes, A.; Walcott, C. D.; Weed, W. H.
- *See also* Gold, &c.
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- Orel Gov. (Russia).—Derjavin, A. N.

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- Ores, optical determination of.—Koenigsberger, J.
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- Orography.—Bertrand, E.; Fournier, E.; Suess, E.; Spurr, J. E.; Richt-hofen, Baron F. von.
- Orosaris*.—Angelis d'Ossat, G. de.
- Orpington (Kent).—Holmes, T. V.
- Orthis*.—Bjærlykke, K. O.; Dennis, D. W.; Grabau, A. W., &c.; Guerich, G.; Martelli, A.; Schellwien, E.; Whidborne, G. F.
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- Orthoceras*.—Angelis d'Ossat, G. de; Bjærlykke, K. O.; Crick, G. C.; Frech, F.; Grabau, A. W.; Kindle, E. M.; Tommasi, A.
- Orthoclase. *See* Felspar.
- Orthostrophia*.—Grabau, A. W., &c.
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- Osnabrück (Hanover).—Hamm, H.
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- Ostracoda, Cambrian.—Groom, T. T.
- , Carboniferous.—Elliot, G. F. S., &c.; Kirkby, J. W.
- , Cretaceous.—Egger, J. G.
- , Devonian.—Grabau, A. W.; Peetz, H. von.
- , Jurassic.—Jones, T. R.
- , Permian.—Fritsch, A.
- , Silurian.—Chapman, F., &c.; Chmielewski, C.; Grabau, A. W., &c.
- , Tertiary.—Blanckenhorn, M.; Clark, W. B., &c.
- , Triassic.—Lomas, J.
- Ostrau (Moravia).—Søhle, U.
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- Ottawa (Canada).—Ami, H. M.; Ells, R. W.
- Ouray (Cal.) dyke.—Ransome, F. L.
- Ouray Limestone.—Girty, G. H.
- Ouro Preto (Brazil).—Derby, O. A.
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- Palæontological correlation of faunas.—Smith, J. P.
- nomenclature.—Bonarelli, G.
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- Palæontology, America (N.).—Weeks, F. B.
 —, evolution &.—Gratacap, L. P.; Munro, R.; Pavlov, A. P.; Van den Broeck, E.; Whidborne, G. F.
 —, Italy, 1900.—Bonarelli, G.
 —, progress of.—Enys, J. D.
 —, text-books, &.—Bettoni, A.; Frech, F.; Grabau, A. W., &c.
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 —, rate of lake-sedimentation near.—Ramond, G.
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 —, Yorkshire.—Hawell, J.
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 — *pilosus*-sands.—Van Erthorn, Baron O.
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- Pendleside Limestones.—Hind, W., &c.
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- Phacopsian.—Williams, H. S.
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 —, United States.—Parker, E. W.
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- Plants, Devonian.—Fox, H.; Matthew, G. F.; Penhallow, D. P.; White, D. —, geology & distribution of. — Sapper, C.
 —, geology & Irish.—Präger, R. L.
 —, Jurassic.—Fliche, P.; Grigoriev, N. V.; Huene, F. von; Lignier, O.; Nathorst, A. G.; Penhallow, D. P.; Seward, A. C.; Ward, L. F.
 —, Permian.—Arber, E. A. N.; Frech, F.; Penhallow, D. P.; Sellards, E. H.; Sterzel, J. T.; Seward, A. C., &c.
 —, Permo-Carboniferous.—Arber, E. A. N.; Dun, W. S.
 —, Quaternary.—Bell, A. M.; Drude, G.; Kurek, C.
 —, Rhatic.—Fliche, P.; Sollas, I. B. J.
 —, Silurian.—Grabau, A. W.
 —, Tertiary.—Bommer, C.; Clark, W. B., &c.; Deane, H.; Diller, J. S., &c.; Guébbard, A., &c.; Knowlton, F. H.; Langeron, —; Leuthardt, F.; Menzel, P.; Peola, P.; Renault, B.; Seward, A. C., &c.; Squinabol, S.
 —, Triassic.—Lomas, J.; Penhallow, D. P.; Schuetz, E.; Seward, A. C., &c.; Ward, L. F., &c.
Platanista.—Abel, O.
Platanistidae, Tertiary.—Abel, O.
Platanus.—Fritsch, A., &c.; Knowlton, F. H.
 Plateau, French Central. *See* France.
 — gravels. *See* Gravels.
 — implements.—Darbishire, R. D.
Platidia.—Clark, W. B., &c.
 Platinum, America (N.).
Platyceras.—Crosby, W. O.; Grabau, A. W., &c.; Grant, C. C.; Kindle, E. M.
Platycænia & *Platytrachus*.—Vaughan, T. W.
Platymetopus.—Guerich, G.; Lindstrom, G.
Platynus & *Platystethus*.—Scudder, S. H.
Platyostoma.—Peetz, H. von.
 PLATZ, P.—Anon., 17.
Plecanium & *Plectina*.—Egger, J. G.
 Pleistocene. *See* Quaternary.
Plesiosaurus.—Guerich, G.
Plethospira.—Kindle, E. M.
Pleuracanthus.—Case, E. C.
Pleurocera & *Polypora*.—Grabau, A. W., &c.
Pleurodictyum.—Whidborne, G. F.
Pleuromya.—Logan, W. N.
Pleuromytilus.—Diener, C.; Frech, F., &c.; Reis, O. M.
Pleurophorus.—Beede, J. W.
Pleurostomella & *Polyphragma*.—Egger, J. G.
Pleurostylodon, *Pleurostyllops*, & *Pliostyllops*.—Ameghino, F.
Pleurotoma.—Clark, W. B., &c.; Cossmann, M., &c.; Dall, W. H.; Oppenheim, P.; Woodward, H.
Pleurotomaria.—Fliegel, G.; Grabau, A. W., &c.; Kindle, E. M.; Loriol, P. de; Oppenheim, P.; Peach, B. N., &c.; Reed, F. R. C.
Plicatula.—Woods, H.
Plicobulla.—Cossmann, M.
 Pliocene, Museum of Practical Geology types.—Allen, H. A.
 —. *See also* Tertiary.
Plumatellites & *Plutonia*.—Fritsch, A., &c.
 Plumbogummite.—Hartley, E. G. J.; Miers, H. A.
 Plum Creek (Colo.).—Jack, J. G.
 Plumstead (Kent).—Holmes, T. V., &c.
 Plymouth (Devon).—Sandeman, E.
 Po R. (N. Italy).—Sacco, F.
Podocarpus.—Fritsch, A., &c.; Menzel, P.
Podocrates.—Ortmann, A. E.
 Podolia (Russia).—Michailovski, G.
Podozamites.—Fritsch, A., &c.; Seward, A. C.; Ward, L. F., &c.
 Pokrovskaia (Urals).—Sokolov, N.
 Poland (Russian).—Tutkovski, P.
 Poles, balancement of.—Péroche, J.
Policipes.—Bather, F. A.
Polycidaris.—Bettoni, A.
Polyconites.—Parona, C. F.
Polygyra.—Stearns, R. E. C.
 Polyhalite.—Basch, E. E.
Polymorphina.—Clark, W. B., &c.; Egger, J. G.
Polytremacis.—Angelis d'Ossat, G. de.
 Polyzoa. *See* Bryozoa.
Pomatiopsis.—Grabau, A. W., &c.
 Pomáz (Servia).—Erdős, L.
 Pomerania (N. Germany).—Bonney, T. G., &c.; Nehring, A.; Schmidt, M.
 Pont-à-Mousson (Lorraine).—Cavallier, C.
 Pont Paul (Britanny).—Coomaraswamy, A. K.
 Pontian, erosion, pre.—Hørnes, R.
 Pontine Marshes (Latium).—Friedländer, E., &c.
Pontistes & *Pontoporia*.—Abel, O.
Pontocypris.—Egger, J. G.
Popanceras.—Frech, F.
Populus.—Diller, J. S., &c.; Knowlton, F. H.
Poractinia.—Vinassa de Regny, P. E.
Porambonites.—Martelli, A.
 Porcelain-clay, Moravia.—Rzehak, A.
Porcula, *Porcus*, & *Potamochærus*.—Stehlin, H. G.
Porina & *Porodiscus*.—Neviani, A.
Porites.—Oppenheim, P.; Vaughan, T. W.
 Porphyroid, Harz.—Johnsen, A.
 Porphyry, Brabant.—Vanhove, D.
 —, Lombardy.—Riva, C.
 —, Montana.—Weed, W. H.
 —, Moray Firth.—Mackie, W.
 —, Mysore.—Foote, R. B.
 —, Norway.—Anon., 44; Bjærlykke, K. G.; Brægger, W. C.
 —, Piedmont.—Kach, M.

- Porphyry, Småland.—Nordenskjöld, O.
 —, Tyrol.—Romberg, J.; Hlawatsch, C.
 Port Hills (N.Z.).—Page, S.
Portheus.—Woodward, A. S.
Porthochelys.—Williston, S. W.
 Portland (Maine).—McBeth, W. A.
 Portlandian, France & Russia.—Pavlov, A. P.
 Portland-stone, St. Paul's Cathedral.—Clayton, E. G.
 Portugal.—Berkeley-Cotter, J. C.; Böhm, J.; Choffat, P.; Delgado, J. F. N.; Eissler, M.; Gomes, J. P.; Klautzsch, A.; Lima, W. de; Mastbaum, H.
 Portugaleta (Bolivia).—Roberts, M.
 Portuguese East Africa.—Sawyer, A. R.
Posidonomya.—Beede, J. W.; Greppin, E.; Hind, W.; Jones, T. R.; Tommasi, A.
 Possrücke Mts. (Styria).—Dreger, J.
 Post-Glacial. *See* Quaternary.
Postpithecus.—Ameghino, F.
 Post-Tertiary. *See* Quaternary.
 Potenza (Basilicata).—Capeder, G.; Prever, P.
 Potholes. *See* Giant's Kettles.
 Potosi Limestone.—Nason, F. S.
 Potsdam formation & pre-Cambrian, New York.—Cushing, H. P.
 Pottenstein a. d. Adler (Bohemia).—Hinterlechner, K.
 Pottsville formation, flora.—White, D.
Prasopora.—Sardeson, F. W.
 Prawle Pt. (Devon).—Hunt, A. R.; Ussher, W. A. E.
 Pre-Cambrian, Charnwood.—Watts, W. W.
 —, Brittany.—Bézier, T.
 —, fossiliferous.—Matthews, G. F.
 —, Smith Sound.—Walcott, C. D.
 Precious stones, New South Wales.—Anon., 31, 33.
 —, United States, &c.—Kunz, G. F.
 —. *See also* Opal, &c.
 Predazzo (Tyrol).—Hlawatsch, C.; Huber, O. von; Romberg, J.
 Prehnite.—Lacroix, A.; Zambonini, F.
 Prenton (Lancs).—Lomas, J.
 Pre-Pontian erosion, S. European.—Hørnes, R.
 Preschen (Bohemia).—Laube, G. C.
 Presolana (Lombardy).—Mariani, E.
 Presque Isle Co. (Mich.).—Grabau, A. W.
 Presburg (Nassau).—Leppia, A.
 PRESTWICH, Sir J.—Prestwich, Lady.
Prestwichia.—Baldwin, W.
 Priabona (Tuscany).—Liebus, A.; Oppenheim, P. [& Priabonian].
 Příčov (Bohemia).—Hofmann, A.
 Primates, Cretaceous.—Ameghino, F.
 Prince William Sound (Alaska).—Schradler, F. C.
Prionastræa.—Angelis d'Ossat, G. de.
Prionodon.—Seguenza, L.
Prismodictya.—Hall, J., &c.
- Proadiantus*, *Propachyrus*, *Propyrotherium*, & *Prosotherium*.—Ameghino, F.
Probeloceras.—Clarke, J. M.
Procladiscites.—Reis, O. M.
Procyclanorbis.—Portis, A.
Prodaphnæus.—Wortman, J. L.
Prodromites.—Smith, J. P., &c.
Productella.—Girty, G. H.; Kindle, E. M.
Productus.—Beede, J. W.; Fliegel, G.; Frech, F., &c.; Peetz, H. von; Schellwien, E.
 — limestone.—Koken, E.
Proëtus.—Frech, F.; Kindle, E. M.; Lindström, G.; Reed, F. R. C.
Prolecanites.—Denckmann, A.
Prolimulus.—Fritsch, A.
Prolobites, *Prosaeceras*, & *Prospiondylus*.—Frech, F.
Promalacoclemmys.—Reinach, Baron A. von.
Promathildia.—Böhm, J.
 Promina Mt. (Dalmatia).—Dainelli, G.
Pronotacanthus.—Woodward, A. S.
Prorhodus, *Proteoides*, *Proteophyllum*, & *Proteopsis*.—Fritsch, A., &c.
Proroporus.—Egger, J. G.
Protocardia.—Böhm, J.; Clake, W. B., &c.
Protogicus.—Squinabol, S.
Protorhipis.—Seward, A. C.
Protosphyæna.—Williston, S. W., &c.
Protrachyceras.—Diener, C.; Tomnasi, A.
 Provence (France).—Bertrand, M.; Fournier, E.; Guébard, A., &c.; Répelin, J.; Steinmann, G.
 Provins (Seine-et-Marne).—Thomas, H.; Prussia (E.).—Gagel, C.; Jentzsch, A., Klautzsch, A.; Krause, P. G.
 — (W.).—Jentzsch, A.; Kuehn, B.; Maas, G.
 —. *See also* Geological Survey, &c.
Psammechinus, *Pseudocidaritis*, & *Pseudopileus*.—Loriol, P. de.
Psammobia.—Oppenheim, P.
Psephenus & *Pterostichus*.—Scudder, S. H.
Psephophorus.—Andrews, C. W.
Pseudhyrax, *Pseudodiantus*, *Pseudopachyrucis*, & *Pseudostylops*.—Ameghino, F.
Pseudoasterophyllites.—Fritsch, A., &c.
Pseudocythere & *Pullenia*.—Egger, J. G.
Pseudodanaopsis.—Ward, L. F., &c.
Pseudodiadema.—Lambert, J.
Pseudogaylussite.—Trechmann, C. O.
Pseudoglossothyris.—Buckman, S. S.
Pseudolina.—Clark, W. B., &c.
Pseudomelania.—Cossmann, M.; Schnarrenberger, C.
Pseudometina.—Cossmann, M.
Pseudomonotis.—Beede, J. W.; Bittner, A.; Bogdanovitch, K., &c.; Logan, W. N.; Loriol, P. de; Pompeckj, J. F.
 Pseudomorphs.—Dall, E.

- Pseudotextularia*.—Schubert, R. J.
Psilichthys.—Hall, T. S.
Pteranodon.—Plieninger, F.
Pteria.—Beede, J. W.; Clark, W. B., &c.
Pterinea.—Grabau, A. W.; Whidborne, G. F.
Pterinopecten & *Ptychodesma*.—Kindle, E. M.
Pteris.—Fritsch, A., &c.; Guébhard, A.
Pterodactylus.—Doederlein, L.; Plieninger, F.; Seeley, H. G.
Pterogora.—Angelis d'Ossat, G. de.
Pterograptus.—Moberg, J. C.
Pteronites.—Hind, W.
Pteroperna.—Bøhm, J.
Pterophyllum.—Seward, A. C.; Ward, L. F., &c.
Pteropoda. See *Gasteropoda*.
Pteropurpura.—Dall, W. H.
Pterospirites.—Knowlton, F. H.
Ptilodictya.—Sardeson, F. W.
Ptychites.—Reis, O. M.
Ptychodus.—Seguenza, L.; Williston, S. W., &c.
Ptychogaster.—Reinach, Baron A. von.
Ptychoparia.—Jäkel, O.; Pompeck, J. F.
Ptychopyge.—Lindström, G.
Ptychostoma.—Tommasi, A.
Ptygmatis.—Lorenz, T.
Ptyonius.—Fritsch, A.
Puella.—Kayser, E.
Pugnax.—Beede, J. W.
Pulaskite.—Dresser, J. A.
Pulborough (Sussex).—Elsden, J. V.
Pule Hill (Yorks).—Barnes, J.
PULLAR, F. P.—Chumley, J.; Murray, Sir J.
Pulvinulina.—Clark, W. B., &c.; Egger, J. G.
Pupa.—Berkeley-Cottér, J. C.; Wuest, E.
Purpura.—Blanckenhorn, M.
Purpurina & *Pygopistes*.—Loriol, P. de.
Pustularia.—Arber, E. A. N.
Puy-de-Dôme (Auvergne).—Bonney, T. G.; Boule, M.; Dannenberg, A.; Sabatini, V.
— (—). See also Congress.
Pycnodonta.—Bonarelli, G.
Pyhäjärvi (Finland).—Berghell, H.
Pyramidula.—Stearns, R. E. C.
Pyrenees.—Adams, F. D.; Bellows, W.; Bergeron, J.; Bertrand, L., &c.; Dannenberg, A.; Hupfeld, F.; Lacroix, A.; Régnault, F., &c.; Sacco, F.; Stuart-Menteath, P. W.
Pyrgoma.—Woodward, H.
Pyripora.—Canu, F.
Pyrites.—Børis, G.; Busz, K.; Butzreanū, V. C.; De Rance, C. E.; Gruber, K.; Launay, L. de; Lotti, B.; Muegge, O.; Parker, E. W.; Rogers, A. F.; Söhle, —; Stokes, H. N.; Struever, J.; Vogt, J. H. L.; Weinschenk, E.
Pyroaurite & *Pyrochroite*.—Flink, G.
Pyrophyllite.—Pratt, J. H.
Pyrosmalite.—Zambonini, F.
Pyrotherium.—Ameghino, F.
Pyroxene.—Leonard, A. G.; Moses, A. J.; Zambonini, F.
— *granulites*.—Holland, T. H.; Morgan, C. L.; Parkinson, J.
Pyroxenite.—Duparc, L., &c.
Pyrrula.—Clark, W. B., &c.; Erdős, L.; Nœtling, F.
Python.—Nœtling, F.
Quadrula.—Grabau, A. W., &c.
Quarries, Great Britain, &c.—Atkinson, J. B., &c.; see also Foster, C. Le N., &c.
Quartz.—Beckenkamp, J.; Gonnard, F.; Hartley, W. N., &c.; Macé de Lépinay, J.; Ries, H.; Spezia, G.; Vanhove, D.; Viola, C.
— *porphyry*.—Romberg, J.
— *solubility of*.—Spezia, G.
— *veins*.—Launay, L. de.
— —. See also *Veins*.
Quartzite, coal in.—Henrich, F.
—, Creuse.—Launay, L. de.
—, Griqualand.—Rinne, F.
—, Hungary.—Schafarz, F.
—, Moray Firth.—Mackie, W.
Quaternary, Asia (Central).—Upham, W., &c.; Wright, G. F.
—, Atlantic coastal-plain of America.—Shattuck, G. B.
—, Baltic.—Bonney, T. G., &c.; Holst, N. O.
—, Belgium.—Lorié, J.; Mourlon, M.; Raeymaekers, D.; Rutot, A.; Van Mierlo, C. J.; Van Ertborn, Baron O.
—, Canada.—Ami, H. M.; Coleman, A. P.; Ellis, R. W., &c.; Penhallow, D. P.
— *climates*.—Anon., 41; Ekholm, N.; Harmer, F. W.; Wright, G. F.
—, England (S.).—Bell, A. M.; Hughes, T. McK.; Johnson, J. P.; Kennard, A. S., &c.; Somervail, A.
—, Finland.—Lagerheim, G.; Lamski, V. V.
—, France.—Douxami, H.; Lebesconte, P.; Meunier, St.; Rutot, A.
—, Geological Survey Museum types.—Allen, H. A.
—, Germany.—Bonney, T. G., &c.; Dathe, E.; Hamm, H.; Koken, E.; Stolley, E.; Wahnschaffe, F.; Wuest, E.
—, Italy.—Nordenskjöld, Baron A. E. von; Stefano, G. de.
— *marine deposits*.—Ochsenius, C.
—, New York State.—Grabau, A. W., &c.
—, Norway.—Rekstad, J.; Stangeland, G. E.
—, Scotland.—Ballantyne, J.; Elliot, G. F. S., &c.
—, Spitsbergen.—Knipovitch, N.
—, Sweden.—Holst, N. O.; Lagerheim, G.; Muenthe, H.
— —. See also *Drift*, &c.

- Quebec (Canada).—Ami, H. M.; Dreser, J. A.; Ellis, R. W.
Quedius.—Scudder, S. H.
 Quedlinburg (Magdeburg).—Richter, P.
 Queensland.—Cameron, W. E.; Card, G. W.; Coghan, T. A.; Dixon, R.; Dun, W. S., &c.; Dunstan, B.; Eissler, M.; Etheridge, R., Jun.; Jack, R. L.; Maclaren, J. M.; Morton, A.; Rands, W. H.
 Quei-Chow (China).—Monod, G. F.
 Queluz (Brazil).—Derby, O. A.
 Quenast (Erabant).—Vanhove, D.
Quenstedticeras.—Loriol, P. de.
Quercus.—Deane, H.; Diller, J. S., &c.; Guebhard, A., &c.; Knowlton, F. H.
 Quercy (Guyenne).—Thévenin, A.
 Quicksand.—Casse, A.; Cuvelier, E.; Debauxe, —; Feret, —; Kemna, A.; Mourlon, M.; Pierret, —; Van Aubel, H.; Van den Broeck, E., &c.; Van Ertborn, Baron O.
 Quirinal Hill Tunnel (Rome).—Clerici, E.
 Radiolaria, Cretaceous.—Dun, W. S.
 —, Jurassic, &c.—Neviani, A.
 —, Palæozoic.—Smith, J.
 —, Tertiary.—Issel, A.
Radiolites.—Douvillé, H.
 Radnor (Wales).—La Touche, J. D.
 Radstädter Tauern (Salzburg).—Frech, F.; Vacek, M.
 Radvány (Hungary).—Olszewski, S.
 Raggedstone Hill (Malvern).—Groom, T. T.; Moore, H. C.
 Rain, distribution, &c.—Herbertson, A.
 —, red.—Meunier, St.; Phipson, T. L.
 —. See Dust.
 Raised beaches, Gower.—Tiddeman, R. H.
 —, Maine.—McBeth, W. A.
 —, Norway.—Hansen, A. M.; Helland, C.; Rekstad, J.; Vogt, J. H. L.
 —, Sweden.—Hollender, A.
 —. See also Shore-lines.
 RAISIN, C. A.—Læwinson-Lessing, F.
 Rajputana (India).—Clarke, R. W.
 Rale (Gironde).—Conil, P. A.
 Rainbow (Brandenburg).—Weissermel, W.
 RAMMELSBERG, F. R.—Miers, H. A.; Wyruboff, G.
Ramphonotus.—Canu, F.
Ramphorhynchus.—Plieninger, F.; Seeley, H. G.
Ramulina.—Egger, J. G.; Liebus, A.
 Rana.—Wolterstorff, W.
 Randerstone (Fife).—Kirkby, J. W.
 Random I. (Smith Sound).—Walcott, C. D.
Ranella.—Nætling, F.
Rangifer.—Rørig, A.
 Ranza, Loch (Arran).—Cowie, C. R.
 Rapakivi granite.—Holmquist, P. J.; Ramsay, W., &c.
Raphitoma.—Cossmann, M., &c.; Crosby, W. O.
 Rappenau (Baden).—Schalch, F.
 Rare elements, minerals with.—Kraus, E. H.
 Rathite.—Solly, R. H.
 Raubsville Cave (Pa.).—Lyman, B. S.
 Rautus (Finland).—Berghill, H.
 Ravenswood Goldfield (Queensl.).—Mac-laren, J. M.
 Rebelj (Servia).—Beck, R., &c.
Receptaculites.—Whitfield, R. P.
 Recoaro (Vicentino).—Törnquist, A.
 Redland (Bristol).—Sollas, I. B. J.
 Red Sea.—Blanchenhorn, M.; Fraas, E.
 Redonda I. (W. I.).—Spencer, J. W. W.
 Reef-curves, Witwatersrand.—Leggett, T. H.
 Reef-knolls.—Tiddeman, R. H.
 Reefs. See Coral, &c.
 Reggio-Calabria (Italy).—Flores, E.; Seguenza, L.; Stefano, G. de.
Regina.—Frech, F., &c.
 Rehorngebirge (Silesia).—Wahnschaffe, F.
Reinschia.—Kaunhowen, F.; Renault, B.
 Remedios (Colombia).—Owen, F.
 Remouchamps (Liège).—Rahir, E.
Renaultia.—Kidston, R.
 Rennes (Britanny).—Kerforne, F.; Lebesconte, P.
Reofar & Rhadammina.—Grzybovski, J.
 Reptilia, age of.—Grant, C. C.
 —, Cretaceous.—Depéret, C.; Gorjanovič-Kramberger, K.; Huene, F. von; Kornhuber, A.; Lambe, L. M.; Seeley, H. G.; Whitfield, R. P.; Williston, S. W.
 —, Jurassic.—Fraas, E.; Guérich, G.; Huene, F. von; Nopésa, F. von, jun.; Plieninger, F.; Sauvage, H. E.; Seeley, H. G.; Williston, S. W.
 —, Permian.—Amalitzki, V.; Case, E. C.; Dathe, E.; Döderlein, L.; Fraas, E.; Frech, F.; Fritsch, A.; Geinitz, H. B.
 —, Tertiary.—Andrews, W. C.; Beadnell, H. J. L.; Clark, W. B., &c.; Nætling, F.; Piaz, G. dal; Portis, A.; Reinach, Baron A. von; Vis, C. W. de; Wolterstorff, W.; Woodward, A. S.
 —, Triassic.—Beasley, H. C.; Broom, R.; Huene, F. von.
Reptofaustrella.—Clark, W. B., &c.
 Reschen-Scheideck (Tyrol).—Mueller, J.
 Resurrection Bay (Alaska).—Mendenhall, W. C.
Retepora.—Neviani, A.
Reticularia.—Beede, J. W.; Frech, F., &c.; Kindle, E. M.
Reticulipora.—Clark, W. B., &c.
 Retinite.—Zengelis, C.
Retzia.—Frech, F.; Peetz, H. von; Schwellwien, E.
 Rewah State (C. India).—Oldham, R. D., &c.

- Reynolds Mine, White Co. (Ga.).—Col-lins, G. E.
Rhabdocidaris.—Loriol, P. de.
Rhabdognium & *Rhizammia*.—Egger, J. G.
Rhabdophyllia.—Oppenheim, P.
Rhabdospongia.—Hall, J., &c.
Rhacophyllites.—Campana, D. del.
Rhätian Alps.—Rothpletz, A.
Rhætic, Carinthia.—Geyer, G.
—, Jura.—Fliche, P.
—, Northants.—Thompson, B.
—, Somerset.—Morgan, C. Ll., &c.; Sollas, I. B. J.; Wickes, W. H.; Woodward, H. B.
Rhagastoma.—Canu, F.
Rhectopsammia.—Vaughan, T. W.
Rheingau (Nassau).—Kayser, E.; Leppla, A.
Rhenish Prussia.—Grebe, H.; Holzapfel, E.; Laspeyres, H.
Rhine terraces.—Lamothé, — de.
Rhinellus.—Woodward, A. S.
Rhinidictya.—Sardeson, F. W.
Rhinoceros.—Flores, E.; Osborn, H. F.; Schræder, H.; Stefano, G. di; Wuest, E.; Zelizko, J. W.
Rhinopora & *Rhynchotreta*.—Grabau, A. W., &c.
Rhipidocystis.—Jækel, O.
Rhipidomella.—Grabau, A. W., &c.; Kindle, E. M.
Rhizopoda, Quaternary.—Lagerheim, G.
Rhizophyllum.—Peetz, H. von.
Rhocophyllites.—Bettoni, A.
Rhodaræa.—Angelis d'Ossat, G. de.
Rhodea.—Vaffier, A.
Rhodesia (S. Africa).—Chesnaye, C. P.
Rhodochrome.—Dunstan, B.
Rhodonite.—Vogt, J. H. L.
Rhomb-porphry.—Bjærlykke, K. O.
— conglomerate.—Brœgger, W. C.
Rhön Mts. (Germany).—Ammon, W. von.
Rhône Dept. (France).—Coste, E.
Rhône River.—Bonard, A.; Lamothé, — de; Launay, L. de; Lugeon, M.; Say, G., &c.
Rhopalastrum.—Neviani, A.
Rhus.—Diller, J. S., &c.
Rhynchippus.—Ameghino, F.
Rhyncholithes.—Vincent, E.
Rhynchonella.—Buckman, S. S.; Frech, F.; Greppin, E.; Guerich, G.; Kindle, E. M.; Kitchin, F. L.; Loriol, P. de; Peetz, H. von; Schellwien, E.; Williams, H. S.
Rhynchorhinus.—Woodward, A. S.
Rhynchosaurus.—Burekhardt, R.
Rhyolite, Mexico.—Ordóñez, E.
—, Montana.—Weed, W. H.
—, Westmoreland.—Rutley, F.
Rhyolitic rocks, Nevada.—Spurr, J. E.
Rhys-ddu (Caernarvon).—Dakyns, J. R.
Richardolydekkeria & *Richardowenia*.—Ameghino, F.
Richmond (Quebec).—Dresser, J. A.
—, coal-basin (Va.).—Woodworth, J. B.
Richtofenia.—Frech, F.
Rico Mts. (Colo.).—Cross, W.
Ridgway Fault, Dorset.—Darwin, H.; Reid, C.
Ries & Riesrand (Württemberg).—Koken, E.
Riesengebirge (Silesia).—Crammer, H.; Werth, E.
Rimella.—Nœtling, F.
Ringicula.—Clark, W. B., &c.; Coss-mann, M., &c.; Nœtling, F.
Rio de Janeiro (Brazil).—Wright, F. E.
Rio Grande coalfield (Texas).—Vaughan, T. W.
Rissoa.—Radde, G.; Steinmann, G.
Rivagra (Venetia).—Dal Lago, D.
River-erosion, Indiana.—Bennett, L. F.
—, Wisconsin.—Salisbury, R. D., &c.
River-robbing, Vosges.—Paulin, V.
River-terraces, Lamothe, — de
— valleys, submerged.—Codrington, T.; Lobley, J. L.
Rivers, Belgium.—Arctowski, H.
—, Connecticut.—Hobbs, W. H.
—, Yorkshire.—Reed, F. R. C.
Riversdale formation.—Ami, H. M.
Road-metal.—Clark, W. B., &c.; Greenwell, A., &c.; Pierret, —; Schafarzik, F.
Robiac (Gard).—Depéret, C., &c.
Roc Noir (Valais).—Milch, L.
Rocheftort (Neuchâtel).—Scharadt, H., &c.
Rochefortia.—Dall, W. H.
Rochester (Kent).—Whitaker, W.
Rock-analyses, Dolomite.—Strahan, A.
—, Dufton Pike Tuff.—Rutley, F.
—, Monchiquite.—Evans, J. W.
—, Moray Firth District.—Mackie, W.
—, Pendleside Limestone.—Hind, W., &c.
—, Serpentine.—Hartley, W. N., &c.
—, U.S.A.—Clarke, F. W.
—, See also Igneous rocks.
Rock-analysis, methods of.—Hillebrand, W. F.
— basins.—La Touche, J. D.
— boring *Helix*.—Harlé, E.
— classification.—Chamberlin, T. C.; Fedorov, E. von; Karpinski, A.; Lacroix, A.; Lœwinson-Lessing, F.; Renevier, E.; Sacco, F.
—, See also Stratigraphical.
— determination.—Rosenbusch, H.
— magmas. See Magmas.
— metamorphism. See Metamorphic.
— pillars, Kansas.—Gould, C. N.
— sedimentation.—Meunier, St.
Rockhampton (Queensl.).—Card, G. W.; Etheridge, R., Jun.
Rocks, Cygnian chemistry and basic.—Suess, E.
—, melting-point of.—Dœlter, C.; Vogt, J. H. L.
—, microscopic structure of.—Harker, A.; Joly, J.; Rosenbusch, H.; Souza-Brandão, V. de; Thompson, G. R.; Vogt, J. H. L.

- Rocks, nitrates, &c. in crystalline.—Gautier, A.
 —, synthesis of.—Liebisch, T.
 Rocky Mts. (N. Am.).—Collie, J. N.; Dawson, G. M.
 Rodents, Tertiary.—Tims, H. W. M.
 —. See also Mammalia.
 Rognac (Provence).—Bresson, A.
 Rolling-Downs Formation.—Dun, W. S., &c.
 Romanville (Seine-et-Oise).—Janet, L.
 Rome (Italy).—Angelis d'Ossat, G. de; Cerruti, V.; Clerici, E.; Davis, W. M.; Friedländer, E., &c.; Meli, R.; Millosevich, F.; Namias, I.; Nelli, B.; Viola, C.; Zambonini, F.
 Romito (Tuscany).—Manasse, E.
 Romorantin (Loir-et-Cher).—Canu, F.; Dollfus, G.
 Rongstock (Bohemia).—Hibsch, J. E.
 Ronquières (Brabant).—Mourlon, M., &c.
 Roodepoort (Witwatersrand).—Anon., 26.
 Roosendal (Holland).—Rutot, A.
 Roque-Esclapon (Var).—Guébbard, A.
 Rosia (Siena).—Pelloux, A.
 Rosseliana.—Canu, F.
 Rossland (British Columbia).—Sandeman, J. J.
 Rostellaria & Rotularia.—Oppenheim, P.
 Rotalina.—Egger, J. G.
 Rotheschönberg adit (Saxony).—Lakes, A.
 Röttschach (Styria).—Redlich, K. A.
 Rouergue (Guyenne).—Thévenin, A.
 Roxania.—Cossmann, M., &c.
 Roxbury Conglomerate.—Burr, H. T.
 ROYALE, J. F., types.—Arber, E. A. N.
 Rozsnyo (Hungary).—Kiss, V. E.
 Ruby.—Cadell, H. M.; Dunstan, B.; Evans, J. W.; Hartley, W. N., &c.; Wynne, T. T.
 Rüdesheim (Nassau).—Leppa, A.
 Rudistæ.—Douvillé, H.; Meli, R.; Parona, C. F.
 Rudolf, Lake (Equat. Africa).—Harrison, J. J.
 Ruffordia.—Seward, A. C.
 Rügen, I. (Baltic).—Bonney, T. G., &c.
 Ruhr (Westphalia).—Mueller, G.
 Ruki R. (Congo).—Cornet, J.
 Rumania.—Butzureanu, V.; Hørnes, H.; Martonne, E. de; Ricci, A.; Seiffert, —; Stefanescu, G., &c.
 RUMSEY, L. M.—Gallagher, J. A., &c.
 Rupbach Valley (Nassau).—Prior, G. T.
 Rupel R. (Belgium).—Mourlon, M.
 Rupelian, Belgium.—Mourlon, M.; Van Ertborn, Baron O.
 —, Hesse.—Steuer, A.
 Russell Cretaceous sub-stage.—Cragin, F. W.
 Russia.—Amalitzki, V.; Bogoslovski, N. A.; Borisaki, A.; Derjavin, A. N.; Eissler, M.; Grigoriev, N. V.; Karpinski, A.; Krasnopolski, A.; Krotov, P.; Lamanski, V. V.; Michailovski, G.; Montessus-de-Ballore, F. de; Nechaev, A.; Nikitin, S. N., &c.; Pavlov, A. V.; Rehbinder, B.; Rippa, P.; Simionescu, G.; Sokolov, N.; Tutkovski, P.; Venukov, P. N.; Vernadski, W., &c.; Visotzki, N.; Wright, G. F.; Yakovlev, N.
 Russia. See also Siberia, &c.
 Rüttimeyeria.—Ameghino, F.
 Rutland.—Elsden, J. V., &c.
 Saalekies (Saxony).—Wuest, E.
 Saarbrücken coalfield (Lorraine).—Liebheim, E.
 Saasthal (Valais).—Bonney, T. G.
 Saba Banks (W.I.).—Spencer, J. W. W.
 Sabalites.—Knowlton, F. H.
 Saccammina.—Grzybovski, J.
 Safforite.—Hintze, C.
 Sagami Sea (Japan).—Ijima, I.
 Sageceras.—Reis, O. M.
 Sagenodus.—Case, E. C.
 Sagenopteris.—Frech, F.; Fritsch, A., &c.; Seward, A. C.; Ward, L. F., &c.
 Sagittario spring (Abruzzi).—Cassetti, M.
 Sagrina.—Egger, J. G.
 Sahara (Africa).—Collot, —; Ficheur, E.; Flamand, G. B. M.; Foureau, F.; Lapparent, A. de.
 Saiga.—Harlé, E.
 Sain Bel (Rhône).—Launay, L. de.
 St. Andreasberg (Garz).—Beushausen, L.
 — Bartholomew, St. Lucia, St. Martin, St. Vincent Is. (W.I.).—Spencer, J. W. W.
 — Cassian Beds, Seiser Alp.—Zittel, K. A. von.
 — Christopher Chain (W.I.).—Spencer, J. W. W.
 — Croix (Wisc.).—Grant, U. S.
 — Cyprien (Dordogne).—Glangaud, P.
 — Domingo (W.I.).—Tippenhauer, L. G.
 — Éloi (Nièvre).—Anglès-Dauriac, —
 — Eufemia (Calabria).—Issel, A.
 — François Mts. (Mo.).—Beecher, C. E.; Keyes, C. R.; Nason, F. S.
 — Gaultier (Indre).—Cossmann, M., &c.; Lambert, J.
 — George's Springs, Einæd.—Kudernatsch, R., &c.
 — Gothard Tunnel.—Fox, F.
 — Ives (Hunts).—Wedd, C. B.
 — John (N.B.).—Ami, H. M., &c.; Matthew, G. F.
 — Joseph Limestone.—Nason, F. S.
 — Lawrence Valley (Canada).—Ells, R. W., &c.
 — Lô conglomerates.—Lebesconte, P.
 — Maria Tiberina (Umbria).—Lotti, B.
 — Mamert (Gard).—Depéret, C., &c.
 — Maurice (Creuse).—Launay, L. de.

- St. Maurice (Valais).—Bonard, A.; Lugeon, M.
 —Oswald's Bay (Dorset).—Rowe, A. W.
 —Paul's Cathedral (London).—Clayton, E. G.
 —Petersburg (Russia).—Lamanski, V. V.
 Salem (Madras).—Holland, T. H.
 —Limestone, Indiana.—Cumings, E. R.
 Salinas Valley (Cal.).—Nutter, E. H.
Salix.—Fritsch, A., &c.; Guébard, A.; Knowlton, F. H.
 Salt, artesian water &c.—Toubeau, J.
 —circulation, geological time and.—Ackroyd, W.; Coomáraswamy, A. K.; Joly, J.; Hunt, A. R.
 —Creek (Ind.).—Bennett, L. F.
 —deposits, Bavaria.—Thuerach, H.
 —, China.—Murdoch, J. A. W.
 —, Herefordshire.—Conder, E.; Moore, C.
 —, Prussia.—Van't Hoff, J. H., &c.
 —, United States.—Grimsley, G. P.; Luther, D. D.; Parker, E. W.
 —, Worcestershire.—Crespi, A. J. H.; Humphreys, J.; Moore, C.
 —lagoons, S. Australia.—Howchin, W.
 —lakes, Hungary.—Kalecsinski, A. von.
 —Plains (Oklahoma).—Gould, C. N.
 —Range (India).—Koken, E.; Næthing, F.
 —, structure of rock.—Beckenkamp, J.
 —water, copper pyrites and.—Ochsenius, C.
 —in N. French coal-measures.—Ochsenius, C.
 SALTER, J. W., types.—Reed, F. R. C.
 Saltpetre.—Darapski, L.
 Salzburg (Austria).—Frech, F.; Vacek, M.
 Salzhausen (Hesse).—Breddin, G.
 Samara Gov. (Russia).—Yakovlev, N.
 Sambre Valley flints (Namur).—Bayet, L.
 —& Meuse (Namur).—Donckier, C.; Dorlodot, H. de; Stainier, X.
 Samos I. (Asia Minor).—Major, C. I. F.
 SAMPSON, G. V. See Cole, G. A. J.
 San Francisco (Cal.).—Fairchild, H. Le R.
 —Giovanni Ilarione (Vicenza).—Schubert, R. J.
 —Juan (Catalonia).—Hupfeld, F.
 —Juan Mts. (Colo.).—Lakes, A.
 —Pellegrino (Bergamo).—Taramelli, T.
 —Polo (Molise).—Parona, C. F.
 —Quirico (Tuscany).—Fantappiè, L.
 —Stefano (Tyrol).—Geyer, G.
 Sancherino torrent (Tuscany).—Ristori, G.
 Sandbergeroceras.—Clarke, J. M.
 Sand-concretions.—Maltézos, C.
 Sand-dunes. See Dunes, &c.
 Sand, erosion by.—Reade, T. M.
 —, false bedding of.—Meunier, St.
 —storms, Tunis.—Bertainchaud, C.
 —waves.—Cornish, V.
 —worn stones. See Windworn.
 —. See also Quicksand.
 Sands, æolian.—Reade, T. M.
 —, Bessarabia.—Venukov, P. N.
 —, Dunkerque.—Gosselet, J.; Lancry, —.
 —, Moray Firth.—Mackie, W.
 Sandstone, Dakota.—Charles, H. W.; Gould, C. N.
 —, German vitrified.—Buecking, H.
 —, Giffnock.—Macnair, P.
 —, Old Red & Torridonian.—Mackie, W.
 —, Pennant.—Anon., 42.
 —, Wealden.—Elsden, J. V., &c.
 Sandwich Is. (Pacific).—Bishop, S. E.; Hitchcock, C. H.; Sawyer, B.
 Sangro Valley (Abruzzi).—Cassetti, M.
Sanguinolites.—Hind, W.; Kindle, E. M.
 Sanidine.—Riva, C.; Zambonini, F.
 Santa Fé (Mexico).—McCarthy, E. T.
 —(Nev.).—McCormack, E.
 —Lucia Range (Cal.).—Willis, B.
 Santal Parganas (India).—Bodding, P. O.
 São Paulo (Brazil).—Kerner, F.
 Saône R. (France).—Bleicher, M. G.
 Saône-et-Loire (France).—Vaffier, A.
Sapindus, *Sapotacites*, & *Sassafras*.—Fritsch, A., &c.
 Sapphire.—Cadell, H. M.; Kunz, G. F.
 Saratov Gov. (Russia).—Pavlov, A. V.
 Sardinia.—Pompeckj, J. F.; Portis, A.; Rimatori, C.; Riva, C.; Törnquist, A.
Sardinioides.—Woodward, A. S.
Sargus.—Priem, F.; Seguenza, L.
 Sarjekfjällen (Norrbotten).—Geer, G. de; Hamberg, A.
 Sarsens.—Jones, T. R.; Judd, J. W.
 Sasbach (Baden).—Bonney, T. G.
 Saulera (Piedmont).—Struever, G.
 Saumur (Anjou).—Michel-Lévy, A., &c.
Saurichnites.—Fritsch, A.
Saurolaphis.—Abel, O.
Saurodon & *Scaphanorhynchus*.—Williston, S. W., &c.
 Saussure.—Leonard, A. G.
 Sauveterre (Lot-et-Garonne).—Glan-geaud, P.
 Savigné (Loir-et-Cher).—Dollfus, G. F.
 Savoy (France).—Duparc, L., &c.; Fournier, E.; Lugeon, M.; Révil, J.; Zaccagna, J. B.
Saxinis.—Scudder, S. H.
 Saxony.—Bayer, O.; Beck, R.; Bergt, W.; Credner, H.; Drude, O.; Fritsch, — von; Linstow, O. von; Menzel, P.; Mueller, H.; Nessig, R.; Scupin, H.; Wuest, E.; Zimmermann, E.
Scabellia.—Ameghino, F.

- Scacchinella*.—Schellwien, E.
Scala.—Clark, W. B., &c.
Scalaria.—Nætling, F.; Oppenheim, P.; Steinmann, G.
Scalpellum.—Bather, F. A.
Scandinavia.—Bache, A.; Hansen, A. M.; Hollender, A.; Lamauski, V. V.
 —. *See also* Norway, &c.
Scandinavian Alps, origin of.—Holmquist, P. J.
Scania (Sweden).—Moberg, J. C.; Törnquist, S. L.
Scaphander.—Cossmann, M., &c.
Scaphiocrinus.—Beede, J. W.
Scapolite.—Spurr, J. E.
Scarboro' (Ont.).—Upham, W.
Scarborough (Yorks).—Monckton, H. W.
Scenella.—Crosby, W. O.
Scenery, geology and.—Bonney, T. G.
Scenidium.—Grabau, A. W., &c.
Schafweide (Hanover).—Mueller, G.
Schalstein, Harz, &c.—Pelikan, A.
Schank, Mt. (S. Austral.).—Howchin, W.
Scheelite.—Flink, G.
Schefferite.—Sioma, J.
Scheldt (Netherlands).—Van der Veur, G. J. G.
SCHIMPER, A. F. W.—Groom, P.
Schiosia.—Douvillé, H.
Schists, Alaska.—Brooks, A. H.
 —, Brittany, &c.—Lebesconte, P.
 —, Devonian.—Lowe, H. J.
 —, French Alps.—Termier, C.
 —, glaucophane.—Washington, H. S.
 —, hornblende.—Lowe, H. J.
 —, Lombardy.—Duparc, L.
 —, Madras.—Holland, T. H.; Smeeth, W. F.
 —, Malvern.—Callaway, C.; Groom, T. T.
 —, Norway.—Tørnebohm, A. E.
 —, Piedmont.—Preiswerk, H.
 —, Scotland.—Elliot, G. F. S., &c.; Horne, J.; Mackie, W.; Macnair, P.
 —, spectrographic analysis of.—Hartley, W. N., &c.
 —, Switzerland.—Bonney, T. G.; Duparc, L.; Fellenberg, E., &c.
 —, Vogtland siliceous.—Zimmermann, E.
Schizoblastus.—Rowley, R. R.
Schizobolus.—Kindle, E. M.
Schizodus.—Beede, J. W.; Kindle, E. M.
Schizolepis.—Ward, L. F., &c.
Schizoneura.—Frech, F.
Schizoporella.—Neviani, A.
Schizoporia.—Kindle, E. M.; Martelli, A.; Peetz, H. von; Spandel, E.
Schleinz, Lower (L. Austria).—Abel, O.
Schleswig-Holstein (Germany).—Peteresen, J.; Stolley, E.
Schoharie (N.Y.).—Stevenson, J. J.
Schönaue (Hesse).—Denckmann, A.
Schönbuch (Württemberg).—Fraas, E.; Koken, E.
Schonen (Sweden).—Moberg, J. C.
Schönthal (Basel).—Struebin, K.
Schorlomite.—Hoffmann, G. C.
Schriesheim (Hesse).—Salomon, W.
SCHROCKENSTEIN, F. X.—Tietze, E.
Schröterite.—Zamboni, F.
Schwarzenberg (Saxony).—Beck, R.
Schwarzwald (Baden).—Graeff, — Sauer, A.
 — (Rh.-Pr.).—Gerhardt, K.
Scieroccephalus.—Fritsch, A.
Scombroclupea.—Woodward, A. S.
Scorpiodina.—Canu, F.
Scotland, annelid-burrows zone.—Macnair, P.
 —, building-stones.—Elsden, J. V., &c.
 —, coalfields.—Dron, R. W.; Geikie, Sir A.
 —, crush-conglomerate.—Hill, J. B.
 —, earthquakes. *See* Earthquakes.
 —, freshwater lochs.—Murray, Sir J., &c.
 —, Geological Survey.—Geikie, Sir A.; Horne, J.
 —, Highlands.—Barrow, G.; Macnair, P.
 —, oil-shales.—Bertrand, C. E.
 —, scenery of.—Bonney, T. G.
 — (S.).—Elliot, G. F. S., &c.; Horne, J.
 —. *See also* Fife, &c.
 'Screwstones', Bavaria.—Ammon, L. von.
Scrupocellaria.—Maplestone, C. M.; Neviani, A.
Scurria.—Schnarrenberger, C.
Scymus.—Seguenza, L.
Sea-changes, land-surface and.—Haug, E.; Pearson, H. W.
 —, Belgian Quaternary.—Van Mierlo, C. J.
Sea-deposits, Timbuctoo recent.—Chevalier, A.
 —. *See also* Oceanic.
Sea-water mills.—Coomáráswamy, A. K.
Seaham (Durham).—Brown, M. W.
Seas, Mesozoic Aquitanian.—Glangeand, P.
Seal, fossil.—Ugolini, R.
Sealand (Cheshire).—Clarke, W. J.
Sebenico (Dalmatia).—Kerner, F. von.
Sedgwickia.—Beede, J. W.
Sedimentary rocks, classification of.—Hundeshagen, F.; Williams, H. S.; Willis, B.; Woodward, H., &c.
 —, sedimentation.—Joly, J.; Meunier, St.; Ramond, G.; Renard, A.; Sollas, W. J.
SEELAND, F.—Geyer, G.
Seeland I. (Denmark).—Grønwall, K. A.
Sequenziaceras.—Campana, D. del.
Sequenziella, *Sethocapsa*, & *Sethoconus*.—Neviani, A.
Seine R. (France).—Dollfus, G.; Meunier, St.
Seine-Inférieure (France).—Houdry, —; Munier-Chalmas, —.

- Seine-et-Marne (France).—Dollfus, G. F.; Ramond, G.; Thomas, H.
- Seine-et-Oise (France).—Janet, L.
- Seiser Alp (Tyrol).—Zambonini, F.; Zittel, K. A. von.
- Seismological Conference, Strasburg.—*See* Strasburg.
- Seismology.—Agamennone, G.; Brooking-Rowe, —; Gerland, G.; Kilian, W.; Kævesligethy, R. von; Milne, J.; Omori, F.; Rudolph, E.
- , *See also* Earthquakes.
- Selachians, Tertiary.—Clark, W. B., &c.
- , —, —, *See also* Fishes.
- Selaginella*.—Fritsch, A., &c.; Knowlton, F. H.
- Selenaria*.—Maplestone, C. M.
- Selenoconus*.—Ameghino, F.
- Seligmannite.—Baumhauer, H.
- Selsfield (Sussex).—Elsden, J. V., &c.
- SELYS-LONGCHAMPS, M. E. DE.—Mourlon, M.
- Semelina*.—Dall, W. H.
- Semicassis*.—Nøtting, F.
- Semicoscinium*.—Grabau, A. W., &c.
- Semipecten*.—Greppin, E.
- Senne R. (Brabant).—Mourlon, M., &c.; Rutot, A.
- Senonian, Portugal.—Lima, W. de.
- , *See also* Cretaceous.
- Sensburg (E. Prussia).—Krause, P. G.
- Septifer*.—Woods, H.
- Sequoia*.—Fritsch, A., &c.; Knowlton, F. H.; Menzel, P.
- Serpentine, analysis of.—Hartley, W. N., &c.
- , Canada.—Dresser, J. A.
- , Himalaya (N.W.).—McMahon, C. A.
- , Hungary.—Vogt, F. W.
- , Indiana.—McBeth, W. A.
- , Liguria.—Issel, A.
- , Lizard.—Lowe, H. J.
- , Malaga.—Gillman, F.
- , Moray Firth.—Mackie, W.
- , Pennsylvania.—Rand, T. D.
- , Tuscany.—Ristori, G.; Salle, E.
- , Valais.—Preiswerk, H.
- , Washington.—Lyon, D. A.
- Serpula*.—Bœhm, J.; Oppenheim, P.
- Serra, Monte (Marches, Italy).—Canavari, M.
- , massif (Jura).—Deprat, J. F. G.
- Servia.—Beck, R., &c.; Erdős, L.; Pavlovič, L.; Pavlovič, P. S.; Radovanovič, S.; Zujović, J. M.
- Sesia Basin (Piedmont).—Johnston-Lavis, H. J.; Kæch, M.
- Setosella*.—Canu, F.
- Severn R.—Cornish, V.
- Sézanne (Marne).—Langeron, —.
- Shan States (Burma).—La Touche, T. H. D.
- Shansi (China).—Drake, N. F.; Leprince-Ringuet, F.; Martelli, A.; Viglino, A.; Zeiller, R.
- Shan Tung (China).—Kærfer, —.
- Shefford Mt. (Montreal).—Dresser, J. A.
- Shell-bed, Bute post-Glacial.—Ballantyne, J.
- Shonkin Sag (Mont.) & Shonkinite.—Weed, W. H., &c.
- Shore-development.—Willis, B.
- , lines, Indiana.—Dennis, D. W.
- , Sweden.—Hedström, H.; Hollender, A. [& Finland].
- , —, *See also* Raised beaches, &c.
- Shoreham (Kent).—Bullen, R. A.
- Shoshonite.—Lewinson-Lessing, F.
- Shropshire.—Clarke, W. J.; Parkinson, J.
- Shumardia*.—Moberg, J. C.
- Siberia.—Anon., 51; Beck, R.; Bogdanovitch, K., &c.; Claypole, E. W.; Derjavin, A., &c.; Jones, T. R.; Peetz, H. von; Polenov, V.; Ricci, A.; Saytzev, A.; Wright, G. F.
- SIBIRTZEV, N. M.—Bogoslovski, N. A.
- Sicily.—Gemmellaro, G. G., &c.; Marielli, O.; Rosati, A.; Sabatini, V.; Seguenza, L.; Stefano, G. de.
- SICOTIÈRE, DE LA.—Letacq, A. L.
- Sidcot (Somerset).—Barrett, W. F., &c.
- Siderastræa*.—Oppenheim, P.; Vaughan, T. W.
- Siderolina* & *Siphogenerina*.—Egger, J. G.
- Siebengebirge (Rh.-Pr.).—Laspeyres, H.
- Siena (Tuscany).—Pelloux, A.
- Sierra Nevada (Cal.).—Dron, R. W.
- Sigaretus* & *Siliquaria*.—Nøtting, F.
- Silberberg (Bavaria).—Gruber, K.; Weinschenk, E.
- Silesia.—Crammer, H.; Dathe, E.; Gue-rich, G.; Krusch, P.; Potonié, H.; Volz, W.; Wahnschaffe, F.; Werth, E.; Wuest, E.; Zimmermann, E.
- Silicates, clays & granitic.—Vydrovski, S.
- , natural.—Gautier, A.; Vernadski, W.
- , separation & formation in igneous rock.—Joly, J.
- Siliceous hot-spring, Lipari Is.—Colomba, L.
- , schists, Silurian.—Zimmermann.
- Silicified tree-trunk from Upper Alsace.—Renault, B.
- Silpha*.—Scudder, S. H.
- Silphites*.—Fritsch, A., &c.
- Silurian, American (N.).—Cummings, E. R.; Kuemmel, H. B.; Prosser, C. S.; Schuchert, C.; Weller, S. A.; Williams, H. S.
- , Aude.—Bresson, A.
- , Baltic.—Chapman, F., &c.; Guerich, G.; Lamanski, V. V.; Ternquist, S. L.
- , beach-structure.—Fairchild, H. Ll. R.
- , Belgium.—Malaise, C.; Mourlon, M.
- , Bohemia.—Želizko, R. J.

- Silurian, Brittany.—Bézier, T.; Kerforne, F.; Lebesconte, P.
 —, Canada.—Ami, H. M.; Ells, R. W.; Grant, C. C.; Lambe, L. M.; Schuchert, C.
 —, China.—Martelli, A.
 —, drift-pebbles, Kovno & (E. & W.) Prussia.—Chmielewski, C.
 —, graptolites. *See* Graptolites.
 —, Greenland.—Nathorst, A. G.
 —, Hesse.—Denckmann, A.
 —, Malvern.—Groom, T. T.; Piper, G. H.
 —, New York.—Grabau, A. W., &c.; Prosser, C. S., &c.; Sarle, C. J.; Stevenson, J. J.; White, T. G.
 —, Niagara Falls fauna.—Grabau, A. W., &c.
 —, Russia.—Lamanski, V. V.
 —, Saxony.—Zimmermann, E.
 —, Scotland.—Barrow, G.; Elliot, G. F. S., &c.; Horne, J.
 —, Scandinavia.—Bjørlykke, K. O.; Lamanski, V. V.; Moberg, J. C.; Törnquist, S. L.; Törnebohm, A. E.
 —. *See also* Fishes, Ordovician, &c.
Silurus.—Leriche, M.
 Silver, Arizona.—Comstock, T. B.
 —, Austria-Hungary.—John, C. von, &c.
 —, Bolivia.—Roberts, M.
 —, British Columbia.—Kendall, J. D.
 —, Chile.—Avalos, C. G.
 —, China.—Hoover, H. E.
 —, Colorado.—Lakes, A.; Ransome, F. L.
 —, crystallization of.—Liversidge, A.
 —, Greece.—Cordella, A.
 —, Idaho.—Lindgren, W.
 —, Ireland.—Lyburn, E. St. J.
 —, iron and.—Struever, G.
 —, Kalgurli.—Carnot, A.; Coghlan, T. A.
 —, Klondyke.—Bowie, A. J.
 —, Mexico.—Fitzpatrick, J. J.; Halse, E.; Howarth, O. H.; McCarthy, E. T.
 —, Montana.—Weed, W. H.
 —, New Jersey.—Chester, A. H.
 —, New Mexico.—Weatherby, W. J.
 —, New South Wales.—Coghlan, T. A.; Moulden, J. C.; Pittman, E. F.
 —, Norway.—Vogt, J. H. L.
 —, Saxony.—Beck, R.
 —, Tasmania.—Allen, F. B.; Coghlan, T. A.; Thomæ, W.
 Silver City (Ido.).—Lindgren, W.
Simbirskites.—Pavlov, A. V.
Simoceras.—Canavari, M.
 Simpon Tunnel.—Anon., 39; Fox, F.
 SIMPSON, J.—Hepburn, D.
 Sinai (E.) (Arabia).—Hume, W. F.
 Sinter, siliceous.—Rutley, F.
 Sion (Valais).—Brunner, H.
Siphonaria.—Cossmann, M., &c.
Siphonophyla.—Tommasi, A.
Siphonoporella & *Smittipora*.—Canu, F.
 Sivamalai Series.—Holland, T. H.
 Skara (Gotland).—Munthe, H.
 Skye, I. of.—Harker, A.; Woodward, H. B.
 Skyros I. (Greece).—Philippon, A.
 SLADEN, W. P.—Cash, W.; Howes, G. B.
 Slate, Ardennes.—Brunner, H.; Reade, T. M. [& Lake District & N. Wales.]
 —, Brittany.—Anon., 45.
 —, Devonian.—Lowe, H. J.
 —, Glarus & Valais.—Brunner, H.
 —, Moray Firth.—Mackie, W.
 Slaty cleavage.—Reade, T. M., &c.
 Sligo, Co. (Ireland).—Scharff, R. F.
 Slocan R. (British Columbia).—Kendall, J. D.
 Sloth, Quaternary.—Merriam, J. C.
 Småland (Sweden).—Nordskjöld, O.
 Smaragdite-euphotide.—Bonney, T. G.
 Smith Sound (Arctic).—Walcott, C. D.
 Smithsonite.—Artini, E.
Smittia & *Spatipora*.—Neviani, A.
 Smoo Cave (Durness).—Hepburn, D.
 Snar Valley (Lanark).—Smith, J.
 Snow-mushrooms.—Cornish, V.
 Snowdon (N. Wales).—Dakyns, J. R.
 Snuggen copper-mines (Helsingland).—Hedström, H.
 Soapstone.—Parker, E. W.
 Soar River (Leicester).—Paul, J. D.
 Sodus Bay (N.Y.).—Martin, J. O.
 Soils, France.—Schlössing, T., Jun.
 —, geology and.—Gosselet, J.; Hazard, J.
 —, Germany (N.).—Keilhack, K.
 —, Hungary.—Horusitzki, H.; Schafarzik, F., &c.; Tinkó, E.; Treitz, P.
 —, iron-ores in.—Klement, C.
 —, Italy.—Stella, A.
 —, New Jersey.—Salisbury, R. D.
 —, physical changes of.—Wollny, E.
 —, Rothamstead.—Dyer, B.
 —, sinking of stones in.—Darwin, H.; Davison, C.
 —, tropical.—Holdeffeiss, —.
 —, Walachia.—Martonne, E. de.
Solariella.—Cossmann, M.
Solarium.—Clark, W. B., &c.; Imkeller, H.; Oppenheim, P.
Solea.—Oppenheim, P.
Solecardia & *Sportella*.—Dall, W. H.
Solecortus.—Nøtting, F.; Steinmann, G.
Solemya.—Kindle, E. M.
Solen.—Clark, W. B., &c.; Dall, W. H.
Solenoecheilus.—Foord, A. H.
Solenomya.—Beede, J. W.; Hind, W.
Solenopleura.—Lindström, G.
Solenopsis.—Hind, W.
 Solfatara products.—Anon., 46.
 SOLOMOKO, E. V.—Læwinson-Lessing, F.
 Sombrero I. (W. I.).—Spencer, J. W. W.
 Somersset.—Bolton, H., &c.; McMurtrie, J.; Morgan, C. Ll., &c.; Parsons, J.; Sollas, I. B. J.; Somervail, A.; Wickes, W. H.; Woodward, H. B.

- Somma, Mte. (Campania).—Deecke, W.
Somphospongia.—Beede, J. W.
 Somskaia (Tomsk).—Derjavin, A., &c.
 Son Valley (Rewah).—Oldham, R. D., &c.
 Sondalo (Lombardy).—Brugnatelli, L.
 Sonning (Berks).—Blundell, G. E.
 Sonora (Cal.).—Walcott, C. D., &c.
 — (Mexico).—Dumble, E. T.
Sorosphaera.—Grzybovski, J.
 Soudan (Africa). See Sudan.
 Soura Valley (Penza Gov.).—Nikitin, S.
 South Australia. See Australia (S.).
 Southport (Lanes).—Dickson, E.
 Spain.—Eissler, M.; Gillman, F.; Jones, J. A.; Klautzsch, A.; Lobley, J. L.; Welton, W. S.
 Spango Granite.—Smith, J.
Spaniodon.—Woodward, A. S.
Spaniomys.—Tims, H. W. M.
 Spanish Peaks (Colo.).—Walcott, C. D., &c.
 Sparth Bottoms (Lanes).—Baldwin, W.
 Spathic iron-ore.—Busz, K.
Spathiocaris.—Kindle, E. M.
 Spenell.—Vogt, J. H. L.
Spermophagus.—Scudder, S. H.
 Spey R. (Scotland).—Hinxman, L. W.
 Spezia, Gulf of (Italy).—Salle, E.
Sphærium.—Grabau, A. W., &c.; Wuest, E.
Sphæroceras.—Loriol, P. de.
Sphærodictya.—Hall, J., &c.
Sphæroidina.—Egger, J. G.
Sphærophthalmus.—Lindström, G.
Sphærozoum.—Neviani, A.
Sphærolites.—Parona, C. F.
Sphenodon.—Dederlein, L.
Sphenodus.—Seguenza, L.
Sphenophyllum.—Arber, E. A. N.; Renault, B.; White, D.
Sphenopteris.—Kidston, R.; Seward, A. C.; Vaffier, A.; Ward, L. F., &c.; White, D.
Sphenotrochus.—Vaughan, T. W.
Sphenozamites.—Ward, L. F., &c.
Spherulites.—Bassett, H.; Parkinson, J.; Teall, J. J. H.
Sphyrna.—Clark, W. B., &c.
 Spiennes (Hainault).—Forir, H.
 Spinel.—Cadell, H. M.; Hartley, W. N., &c.; Lacroix, A.
 Spion Kop (Natal).—Exton, H., &c.
Spirifer.—Beede, J. W.; Bogdanovitch, K.; Frech, F.; Girty, G. H.; Grabau, A. W., &c.; Guerich, G.; Kindle, E. M.; Nathorst, A. G.; Peetz, H. von; Schellwien, E.; Tommasi, A.; Whidborne, G. F.
Spiriferina & *Spirigerella*.—Frech, F., &c.; Schellwien, E.
Spirigera.—Fliegel, G.; Frech, F., &c.
Spirillina.—Chapman, F.; Egger, J. G.
Spirocampe.—Issel, A.
Spiroglyphus.—Fritsch, A.
Spiroloculina.—Chapman, F.; Clark, W. B., &c.; Egger, J. G.; Grzybovski, J.
Spiroplecta.—Egger, J. G.; Grzybovski, J.; Spandel, E.
Spiropteris.—Kidston, R.
Spirorbis.—Rowley, R. R.
Spirula.—Schwarz, E. H. L.
 Spiti (Himalayas).—Krafft, A. von.
 Spitsbergen (Arctic).—Kayser, E.; Knipovitch, N.; Nathorst, A. G.; Renault, B.
 Spitzberg (Bohemia).—Trenkler, H.
 Spodumene.—Hoffmann, G. C.
 Spoleto (Umbria).—Taramelli, T.
Spondylus.—Oppenheim, P.; Trabucco, G.; Woods, H.
 —beds, Kiev.—Tutkovski, P.
 Sponges, Cambrian, &c.—Lebesconte, P.
 —, Carboniferous.—Elliot, G. F. S.
 —, Silurian.—Hall, J., &c.
 —, Tertiary.—Clerici, E.; Malfatti, P.
Spongilla.—Clerici, E.
Spongophyllum.—Peetz, H. von.
 Springs, Abruzzi.—Cassetti, M.
 —, Hesse.—Denckmann, A.
 —, intermittent.—Knightley, T. E.; Parmentier, F.
 —, Kansas Tertiary.—Gould, C. N.
 —, Styria.—Kudernatsch, R., &c.
Squalodon.—Piaz, G. dal.
 Square Lake (Me.).—Williams, H. S.
Stacheia.—Chapman, F., &c.
 Staffordshire.—Cadman J.; Gibson, W.; Fox-Strangways, C.; Stobbs, J. T.; Wedd, C. B.
 Staked Plains (Texas).—Gidley, J. W.
 Stanmore (Middlesex).—Salter, A. E.
 Stannite.—Spencer, L. J.
 Stannary Hills (Queensl.).—Maclaren, J. M.
 Stanwell (Queensl.).—Card, G. W.; Dunstan, B.; Etheridge, R., Jun.
Staphylinus & *Stenolophus*.—Scudder, S. H.
 Starie Sharap (Tomsk).—Derjavin, A., &c.
 Start Pt. (Devon).—Hunt, A. R.
 Stassfurt (Anhalt).—Van't Hoff, J. H., &c.
Stauroidiscus & *Stefoide*.—Neviani, A.
 Stavelot (Liège).—Raeymaekers, D.
Steganoporella & *Steginopora*.—Canu, F.
Stegosaurus.—Huene, F. von.
 Steinheim (Württemberg).—Koken, E.
 Steinhorn (Hesse).—Denckmann, A.
Stellipora.—Sardeson, F. W.
Steneosaurus.—Dean, B.
Stenogenium.—Ameghino, F.
Stenopora.—Etheridge, R., Jun.
Stenotheca.—Crosby, W. O.
Stephanocenia, *Stephanomorpha*, & *Steriphonotrochus*.—Vaughan, T. W.
Stephanocrinus.—Grabau, A. W., &c.
Stephanosmilia.—Oppenheim, P.
 Steppes, European prehistoric.—Geikie J.
Sterculia.—Fritsch, A., &c.
Stereogenys.—Andrews, C. W.

- Stereograms.—Goodchild, J. G.
Stereosternum.—Geinitz, H. B.
 Sterza Valley (Lombardy).—Achiardi, G. d'.
 STÉVIN, S.—Vincent, J.
 Stewkley (Bucks).—Davies, A. M.
 Stibiodomeykite.—Kœnig, G. A.
Stichocapsa & *Stichoporina*.—Neviani, A.
Stichomys.—Tims, H. W.
Stigmara.—Cadman, J.; Potonié, H.; Vaffier, A.; Zeiller, R.
 Stockel (Brabant).—Vincent, E.
 Stockholm district (Sweden).—Geer, G. de.
 Stokesley (Yorks).—Hawell, J.
Stolidoma.—Cossmann, M., &c.
 Stone-age, England, &c.—Allen, G. K.
 —, New Brunswick.—Matthew, G. F.
 Stone-implements. *See* Implements.
 Stone-sinking by worms.—Darwin, H.; Davison, C.
 Stördal (Trondhjem).—Friis, J. P.
 STORMS, R.—Renard, A.
 STORRIE, J.—ADON., 18; Howes, G. B.
Strabops.—Beecher, C. E.
Straparollina & *Strenuella*.—Crosby, W. O.
Straparollus.—Cossmann, M.; Girty, G. H.; Kindle, E. M.
 Strasburg (Alsace), Earthquake Conference at.—Gerland, G.; Lagrange, E.; Omori, F.
 Strathdearn (Inverness).—Wallace, T.
 Stratification.—Meunier, St.
 Stratigraphical classification. — Chamberlin, T. C.; Hobson, B.; Renevier, E.; Vincent, J.; Willis, B.; Woodward, H., &c.
 —. *See also* Rocks.
Stratodus.—Williston, S. W., &c.
Strepsidura.—Clark, W. B., &c.
Strepsodus.—Wellburn, E. D.
Streptelasma.—Lambe, L. M.
Streptorhynchus.—Schellwien, E.
Striatopora.—Grabau, A. W., &c.; Peetz, H. von.
Stringocephalus-limestone, Hesse, &c.—Delkeskamp, R.
 Strike & dip.—Vorwerg, O.
 Strike-maps.—Lomas, J.
Strioterebrum & *Subula*.—Nœtling, F.
Stroboceras.—Foord, A. H.
Stromatopora & *Strophonella*.—Grabau, A. W., &c.
 Stromatoporidae, Mesozoic.—Tærnquist, A.
Strombus.—Oppenheim, P.; Steinmann, G.
Strongylocentrotus.—Loril, P. de.
 Strontianite.—Beykirch, J.
Strophalosia.—Frech, F.
Stropheodonta.—Grabau, A. W., &c.; Kindle, E. M.; Peetz, H. von; Whidborne, G. F.
 Struvite.—Hoffmann, G. C.; Richter, O.
 Studland Bay (Dorset).—Rowe, A. W.
 Stukeley, Great (Hunts).—Bullen, R. A.
Sturia.—Reis, O. M.
Styliola.—Kindle, E. M.
Stylocænia.—Angelis d'Ossat, G. de; Oppenheim, P.
Stylocyelia.—Neviani, A.
Stylophora.—Oppenheim, P.; Vaughan, T. W.
 Styria (Austria).—Dreger, J.; Hørnes, R.; Kudernatsch, R., &c.; Redlich, K. A.; Söchle, U.
 Styrian Alps.—Bittner, A.
 Subiaco (Rome).—Meli, R.; Viola, C.
 Submarine plateau, Norway.—Vogt, J. H. L.
 Sub-oceanic river-valleys.—Hull, E.; Lobley, J. L.
 — terraces, Atlantic.—Hudleston, W. H.; Hull, E.
Subulites.—Reed, F. R. C.
Succinea.—Wuest, E.
 Suceava (Rumania).—Butzureanu, V.
 Sudan (N. Africa).—Chevalier, A.; Meunier, St.; Prior, G. T.
 SUESS, E.—Wichmann, H.
 Suffolk.—Bullen, R. A.
Sulcoactæon.—Cossmann, M.
 Sulitelma Glacier (Scandinavia).—Hamberg, A.
 Sulpharsenites of lead.—Solly, R. H.
 Sulphates of iron, natural.—Scharizer, R.
 Sulphide-ores, Broken Hill.—Moulden, J. C.
 Sulphosilicates.—Gautier, A.
 Sulphur.—Bézier, T.; Busz, K.; De Rance, C. E.; Erdmann, E.; John, C. von, &c.; Parker, E. W.; Pelloux, A.; Popov, S. P.; Stella, A.
 Sumatra (D.E.I.)—Fliegel, G.; Stephens, F. J.
 'Sunburning,' basaltic.—Leppla, A.
 Sundbyberg (Stockholm).—Geer, G. de.
 Superior, Lake (N. Am.).—Coleman, A. P.; Gilbert, G. K.; Stevens, H. J.; Willmott, A. B.
Surecula.—Cossmann, M., &c.; Nœtling, F.
 Surinam (D. Guiana).—Du Bois, G. C.
 Surrey.—Blundell, G. E.; Davies, A. M.; Herries, R. S.; Martin, E. A.; Monckton, H. W.; Roberts, N. F.; Stebbing, W. P. D.; Whitaker, W.
 Surveying & geological surveys. *See* Geological.
Sus.—Stehlin, H. G.
 Susa R. (Piedmont).—Zambonini, F.
 Sushitna R. (Alaska).—Eldridge, G. H.
 Sussex.—Dawson, C.; Elsdon, J. V., &c.; Johnson, J. P.; Van Ysendyck, P.
 Sutherland.—Teall, J. J. H.
 Swabia. *See* Bavaria & Württemberg.
 Swabian Alps.—Geiger, P.
 Swadlincote (Derby).—Fox-Strangways, C.

- Swallow-holes. *See* Caverns.
 Swanscombe (Kent).—Kennard, A. S., &c.
 Swarth Fell (Yorks).—Rhodes, J.
 Sweden.—Eissler, M.; Hamberg, A.; Høgbom, A. G.; Hollender, A.; Lagerheim, G.; Moberg, J. C.; Muenthe, H.; Nordenskjöld, O.; Svedmark, E.; Wolff, W.
 —. *See also* Scandinavia, shorelines, &c.
 Switzerland.—Baltzer, A.; Brigham, A. P.; Duparc, L.; Renevier, E., &c.; Schardt, H., &c.
 —, Geological Commission.—Heim, A., &c.
 —, geology, 1900.—Schardt, H., &c.
 —, limestone - blocked valleys. — Lugeon, M.
 —. *See also* Alps, &c.
 Syenite, Alaska.—Spurr, J. E.
 —, Brazil.—Wright, F. E.
 —, Madras.—Holland, T. H.
 —, Montana.—Weed, W. H.
 —, Moravia.—Suess, F. E.
 —, Ontario.—Miller, W. G.
 —, Urals.—Johnsen, A.; Morozevich, I.
 —. *See also* Igneous rocks.
 Sylæmus.—Cragin, F. W.; Williston, S. W., &c.
 Sylt I. (Schleswig-Holstein).—Petersen, J.; Stolley, E.
 Sylvana-limestone. *See* *Helix*.
 Sylvanite.—Hintze, C.
 Sylvite.—Beckenkamp, J.
 Symond's Yat (Hereford).—Moore, H. C.
 Symphyllia.—Angelis d'Ossat, G. de.
 Symphysaurus.—Bjærlykke, K. O.; Lindstrøm, G.
 Synchysite.—Flink, G.
 Synechodus.—Clark, W. B., &c.
 Syringopora.—Beede, J. W.; Chapman, F., &c.; Etheridge, R., Jun.
 Szapáryfalva (Hungary).—Schafarz, F., &c.
 Szaszor (Hungary).—Pálffy, M. von.
 Table Cape (Tasmania).—Spencer, B.
 Tachinus & Tachyporus.—Scudder, S. H.
 Taniodon.—Bohm, J.
 Taniopteris.—Dun, W. S.; Sellards, E. H.; Seward, A. C.; Ward, L. F., &c.
 Tafna (Algeria).—Gentil, L.
 Taiwan (Formosa).—Rein, J.
 Talc.—Nevius, J. N.; Parker, E. W.; Peck, F. B.
 Tallulah R. (Georgia).—Jones, S. P.
 Tamaya (Chile).—Varas, I.
 Tampa (Florida).—Dall, W. H.
 Tanalia & Tempskyia.—Fritsch, A., &c.
 Tancredia.—Bohm, J.; Logan, W. N.; Peach, B. N., &c.
 Tanganyika, Lake (Equat. Africa).—Ferguson, M.; Moore, J. E. S.; Stromer, E.
 Tapes & Terebrum.—Nøtling, F.
 Tapirus.—Schlosser, M.
 Tarn (S. France).—Viré, A.
 Taromeo (Queensl.).—Ball, L. C.
 Tarsus (Asia Minor).—Schaffer, F.
 Tartarian.—Nechaev, A.
 Tasmania.—Daly, H. J.; Fawns, S.; Spencer, B.; Thomæ, W.; Thureau, G.
 Tatasi (Bolivia).—Roberts, M.
 Tatra Mts. (Hungary).—Limanowski, M.; Uhlig, V.
 Tauern Mines (Tyrol).—Diener, C.; Frech, F.
 Taunus (Hesse).—Henrich, F.; Reinach, Baron A. von.
 Taxites.—Seward, A. C.
 Tay Basin (Scotland).—Murray, Sir J., &c.
 Teeth, mammalian.—Gaudry, A.; Tims, H. W. M.
 Tegern Lake (Bavaria).—Regelmann, L.
 Tegulifera.—Schellwien, E.
 Teign Gorge (Somerset).—Somervail, A.
 Tellina.—Clark, W. B., &c.; Dall, W. H.; Nøtling, F.
 Tellina Valley (Lombardy).—Brugnattelli, L.
 Tellinomorpha.—Hind, W.
 Telluride, Australia (W.).—Carnot, A.; Krusch, P.; Rickard, T. A.; Woodward, H. P.
 —, Colorado.—Palache, C.; Rickard, T. A.
 —, New Zealand.—Allen, F. B.
 Temnocheilus.—Fliegel, G.; Foord, A. H.; Frech, F.
 Temperature, atmospheric. — Dickson, H. M.
 —, Hungarian salt-lakes and.—Kalecsinski, A. von.
 —, rock.—Elsden, J. V.; Fox, F.; Sollas, W. J.; Turner, P.
 Tennessee (U.S.A.).—Evans, A. W.; Lakes, A.; Weed, W. H.
 Tentaculites.—Frech, F., &c.; Kindle, E. M.
 Tephrite.—Gruss, K.
 Terebra.—Cossmann, M.
 Terebratulina.—Bogdanovitch, K., &c.; Bonarelli, G.; Buckman, S. S.; Choffat, P.; Clark, W. B., &c.; Greppin, E.; Kindle, E. M.; Kitchin, F. L.; Lorient, P. de; Oppenheim, P.; Schellwien, E.
 Terebratulina. — Kitchin, F. L.; Schnarrenberger, C.
 Terebratuloida.—Fliegel, G.
 Terebripora.—Neviani, A.
 Teredina.—Dall, W. H.; Guerich, G.
 Tereido.—Clark, W. B., &c.; Oppenheim, P.
 Termierite.—Friedel, G.
 Terminalia & Ternstroemia.—Fritsch, A., &c.
 Termonde (Flanders).—Van Ertborn, O.
 Terraces, sub-oceanic.—Hudleston, W. H.; Hull, E.

- Terraces, Wabash R.—Scovell, J. T.
 Terreneuve (Haiti).—Tippenhauer, L. G.
 Terrestrial magnetism, Kursk.—Nikitin, S. N.
 Tertiary, Abruzzi.—Cassetti, M.
 —, Apennines.—Trabucco, G.
 —, Argentina.—Sangiorgi, D.
 —, Australia.—Deane, A.; Demnant, J.; Pritchard, G. B.; Tate, R.
 —, Austria-Hungary.—Abel, O.; Dainelli, G.; Fuchs, T.; Hørnes, R.; Oppenheim, P.; Procházka, V. J.
 —, Belgium.—Cornet, J.; Dollfus, G., &c.; Lorie, J.; Mourlon, M.; Pergens, E.; Rutot, A.; Storms, R.; Van den Broeck, E.; Van Ertborn, Baron O.
 —, Bosnia.—Grimmer, J.; Katzer, F.
 —, Brazil.—Borchert, A.; Branner, J. C.
 —, Burma.—Nœtling, F.
 —, Corsica.—Maury, E.
 —, Egypt.—Andrews, C. W.; Ball, J.; Beadnell, H. J. L.; Blanckenhorn, M.
 —, Florida.—Dall, W. H.
 —, France.—Bézier, T.; Cossmann, M., &c.; Dollfus, G., &c.; Grossouvre, A. de; Guébbard, A., &c.; Launay, L. de, &c.; Lebesconte, P.; Munier-Chalmas, —; Raulin, V.; Rouville, — de.
 —, *Helix sylvana*-limestone.—Miller, K.
 —, Hesse.—Steuer, A.; Wittich, E.
 —, Ionian Is.—Martelli, A.
 —, Italy.—Angelis d'Ossat, G. de; Capeder, G.; Dal Lago, D.; Del Bue, G.; Issel, A.; Liebus, A.; Lotti, B.; Malfatti, P.; Nelli, A.; Neviani, A.; Oppenheim, P.; Peola, P.; Piaz, G. dal; Prever, P.; Sacco, F.; Squinabol, S.; Trabucco, G.; Verri, A.; Viola, C.
 —, London Basin.—Martin, E. A.; Whitaker, W.
 —, marine deposits, later.—Ochsenius, C.
 —, Maryland.—Clark, W. B., &c.
 —, Moravia.—Fugger, E.; Rzehak, A.; Tietze, E.
 —, Oregon.—Merriam, J. C.; Stearns, R. E. C.
 —, Philippine Is.—Becker, G. F.; Martin, K.
 —, Rhenish Prussia.—Laspeyres, H.
 —, Russia.—Michailovski, G.; Pavlov, A. V.; Radlevich, G.; Sokolov, N.
 —, Samos.—Major, C. I. F.
 —, Servia.—Pavlovič, P. S.; Žujović, J. M.
 —, Skye.—Harker, A.
 —, Switzerland.—Huene, E. von.
 —, Tasmania.—Spencer, B.
 —, Thuringia.—Wuest, E.
 — types, Museum of Practical Geology.—Allen, H. A.
 —, Tyrol.—Schubert, R. J.
 Tertiary, Washington.—Smith, G. O., &c.
 —, Wyoming.—Hague, A.
 Tešanj (Bosnia).—Grimmer, J.
 Teschenite.—Choffiat, P.
Testudo.—Reinach, Baron A. von.
Tetragonopteris.—Woodward, A. S.
Tetragnostus.—Bjerlykke, K. O.
 Tetrahedrite.—Chester, A. H.; Loczka, J.; Zemaný, K.
Tetrataxis.—Spandel, E.
 Teutoburger Wald (Germany).—Stille, H.
 Texas (U.S.A.).—Douvillé, H.; Gidley, J. W.; Phillips, W. B.; Smith, J. P.; Vaughan, T. W.; Walcott, C. D., &c.
Textularia.—Bonarelli, G.; Clark, W. B., &c.; Egger, J. G.; Grzybowski, J.; Spandel, E.
Thalamoporella.—Maplestone, C. M.
Thalassoceras.—Frech, F.
Thalattosuchia.—Fraas, E.
 Thale (Harz).—Brandes, G.
 Thames Valley.—Johnson, J. P.
Thamnastræa.—Angelis d'Ossat, G. de.
Thamnodictya & *Thysanodictya*.—Hall, J., &c.
 Thanet, I. of (Kent).—Clinch, G.
 Thaumaside.—Busz, T.
Thecachampsia.—Clark, W. B., &c.
 Thecoidea.—Jækel, O.
Theosyringium.—Neviani, A.
 Thermal waters, Arabia.—Milnes, S. B.
 —, Lippe.—Morsbach, —.
 —, origin of sulphurous.—Gautier, A.
 —, Tyrol.—Ludwig, T., &c.
 —, Vienna Basin.—Knett, J.
 Thessaly (Greece).—Zengelis, C.
 Theux (Liège).—Dorlodot, H. de; Fourmarier, P.
Thinnfeldia & *Thyrsopteris*.—Ward, L. F., &c.
 Thinolite.—Trechmann, C. O.
 Thirlmere (Cumberland).—Oldham, R. D.
Thomasuxleya.—Ameghino, F.
Thomasia.—Guébbard, A., &c.
 Thomsonite.—Patton, H. B.
 Thorncliffe (Yorks).—Foster, H. T.
Thracia.—Oppenheim, P.
Thuramina.—Egger, J. G.
 Thunder Mt. (Idaho).—L'Hame, W. E.
 Thurgarton (Notts).—Clarke, W. J.
 Thüring (Saxony).—Luedcke, —.
 Thuringia (Germany).—Franzen, W.; Steuer, A.; Thuerach, H.; Wuest, E.; Zeise, O.
Thylæa.—Renault, B.
Thysanocrinus.—Grabau, A. W., &c.
 Tiber River (Italy).—Clerici, E.
 Tibet (Asia).—Frech, F.; Lydekker, R.
 Tierra del Fuego (S. Am.).—Arctowski, H.; Pechmann, R.
 Tilai (Urals).—Duparc, L., &c.
 Tilton (Leicester).—Fox-Strangways, C.
 Timbuctoo (N. Africa).—Chevalier, A.

Time-values in geology. *See* Sedimentary rocks, classification, &c.
 Timiriázévo (Kharkov).—Bogoslovski, N. A.
 Tin, Australia (W.).—Maitland, A. G.; Simpson, E. S.
 —, Bolivia.—Frochot, M.; McDermott, W.; Roberts, M.
 —, Brittany.—Bézier, T.; Lebesconte, P.
 —, Malacca.—Derrick, W. H.; Stephens, F. J.
 —, New South Wales & Tasmania.—Coghlan, T. A.
 —, Queensland.—Maclaren, J. M.
 —, Saxony.—Beck, R.; Mueller, H.
 —, Tuscany.—Bergeat, A.
Tinea.—Fritsch, A., &c.
 Tinguaita.—Prior, G. T.
 Tintic Mts. (Utah).—Walcott, C. D., &c.
Tintinus.—Dun, W. S., &c.; Legerheim, G.
 Tipuani (Bolivia).—Frochot, M.
 Titaniferous iron-ores.—Bluman, N. J.; Kolderup, C. F.
 —, basic eruptive rocks with.—Vogt, J. H. L.
 Titanite.—Neuwirth, V.
 Tithonian. *See* Jurassic.
Tivela.—Steinmann, G.
 Toarcian. *See* Jurassic.
Todea & Todites.—Seward, A. C.
 Todmorton (Yorks).—Carter, W. L.
 Tölz (Bavaria).—Imkeller, H.; Rothpletz, A.
 Tomsk (Siberia).—Derjavin, A., &c.; Peetz, H. von; Polenov, V.
 Tonalite.—Leonard, A. G.
 Tongking (Indo-China).—Zeiller, R.
 Tongres (Belgian Limburg).—Van den Broeck, E.
 Tönsberg (Christiania).—Stangeland, G. E.
 Topaz.—Derby, O. A.; Lacroix, A.
 Topography, geological surveying and.—Lyman, B. S.
 Torbanite.—Bertrand, C. E.
 TORELL, O.—Andersson, J. G.; Erdmann, E.; Holmström, L.; Wahnschaffe, F.
Torinia.—Nøtling, F.
Tornatella.—Clark, W. B., &c.
Tornatina.—Cossmann, M.
Tornoceras.—Angelis d'Ossat, G. de; Clarke, J. M.
 Torquay (Devon).—Whidborne, G. F.
Torreya.—Menzel, P.
 Tortoises, Tertiary.—Reinach, Baron A. von.
 Tortworth (Gloucester).—Morgan, C. Ll., &c.
 Tottenham (Middlesex).—Monckton, H. W.
Toucasia.—Schnarrenberger, C.
 Toul Gov. (Russia).—Rippas, P.
 Toulon (Var).—Lotti, B.
 Touraine (France).—Dollfus, G. F.

Tourmaline.—McMahon, C. A.; Panbianco, R.; Tschermak, G.; Vorobiev, V. I.
 'Tourtia.' *See* Conglomerates, Mons.
Toxochelys.—Williston, S. W.
Trachelocheilus & Triforis.—Oppenheim, P.
 Trachypora.—Beede, J. W.
 Trachyte, Darmstadt.—Klemm, G.
 —, Rhenish.—Laspeyres, H.
 —, Servia.—Erdős, L.
 —, Victoria (Austral.).—Dennant, J.
 Tracks, Cambrian.—Cole, G. A. J.
 Traisenthal (Lr. Austria).—Bittner, A.
Transpithecus.—Ameghino, F.
 Transvaal (S. Africa).—Chalmers, J. A.; Chapman, F., &c.; Crosbie, A. F.; Denny, G. A.; Exton, H., &c.; Hassall, J.; Leggett, T. H.; Penning, W. H.; Pickstone, W.; Rathbone, E. P.; Welton, W. S.; Wilkinson, W. F.; Wybegh, W.
 Transylvania (Hungary).—Adda, K. von; Hørnes, R.; Kalecsinski, A. von; Nopcsa, F. von, Jun.; Ebbke, K., &c.; Schafarz, F.; Semper, M.
Trapa.—Knowlton, F. H.
Trapezium.—Dall, W. H.
 Trau (Dalmatia).—Kerner, F.
 Traversella (Piedmont).—Novarese, V.
 Travertine, Tuscany.—Del-Zanna, P.
 —, Vichy.—Girard, C.
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 Trebitsch (Moravia).—Suess, F. E.
 Treffurt (Thuringia).—Frantzen, W.
 TRÉHOUART's publication-dates.—Sherborn, C. D., &c.
Tremadictyon.—Malfatti, P.
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Trematotrochus.—Dennant, J.
Tremopora.—Canu, F.
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 Tretto (Venetia).—Tornquist, A.
Triacodon.—Wortman, J. L.
Triarthrus.—Jækel, O.
 Trias, Apulia.—Checchia, G.
 —, Austria-Hungary.—Bittner, A.; Frech, F.; Fuchs, T.; Geyer, G.; Kossmat, F.; Limanowski, M.
 —, Bavaria.—Reis, O. M.; Thuerach, H.
 —, Cheshire.—Beesley, H. C.
 —, Colorado.—Ward, L. F.
 —, colouring of.—Philippi, E.
 —, Corbières.—Bresson, A.
 —, Elgin & Warwickshire.—Bather, F. A.; Burckhardt, R.
 —, Europe (Central).—Philippi, E.
 —, Greece.—Cayeux, L., &c.
 —, Harz.—Brandes, G.
 —, Himalayas.—Diener, C.; Krafft, A. von; Nøtling, F.
 —, Idaho.—Smith, J. P.
 —, Lancashire.—Lomas, J.; Reade, T. M.
 —, Lombardy.—Mariani, E.; Tommasi, A.

- Trias, Mexico.—Dumble, E. T.
 —, Northants.—Thompson, B.
 —, Orenburg.—Nechaev, A.
 —, Salt Range.—Diener, C.; Koken, E.; Nœtling, F.
 —, Silesia.—Zimmermann, E.
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 —, Switzerland.—Struëbin, K.
 —, Thuringia.—Thuerach, H.
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 —, Westphalia.—Mueller, G.
 —, Württemberg.—Waidelich, —.
 Triberg (Baden).—Sauer, A.
Triboloceras & *Trigonoceras*.—Foord, A. H.
Tricolocampe, *Tricolocapsa*, & *Trigona-actura*.—Neviani, A.
Tridacophyllia.—Angelis d'Ossat, G. de.
 Tridymite.—Beckenkamp, J.; Slavik, F.
 Trieste (Austria).—Mazelle, E.
Triga.—Scudder, S. H.
Trigeria.—Rowley, R. R.
Trigonia.—Greppin, E.; Guerich, G.; Woods, H.
Trigonoarca & *Trigonyx*.—Clark, W. B., &c.
Trigonocarpum.—White, D.
Trigonostylops & *Tychostylops*.—Ameghino, F.
 Trilobites, Cambrian.—Crosby, W. O.; Jäkel, O.; Katzer, F.; Moberg, J. C.; Pompeckj, J. F.; Williams, H. S.
 —, Carboniferous.—Fliegel, G.
 —, classification of.—Lebesconte, P.
 —, Devonian.—Cole, G. A. J.; Frech, F., &c.; Guerich, G.; Kindle, E. M.; Peetz, H. von.
 —, Silurian.—Bjœrlykke, K. O.; Elliot, G. F. S., &c.; Grabau, A. W., &c.; Gregory, J. W.; Guerich, G.; Jäkel, O.; Kerforne, F.; Moberg, J. C.; Reed, F. R. C.; Williams, H. S.
 —, visual organs of.—Barrois, C.; Lindström, G.
Trimeroccephalus.—Angelis d'Ossat, G. de.
Trimerostephanos.—Ameghino, F.
Trinuclæus.—Bézier, T.; Bjœrlykke, K. O.; Kerforne, F.
Trionyx.—Portis, A.; Reinach, Baron A. von.
Triplidium & *Triplidiscum*.—Neviani, A.
Triplasia.—Egger, J. G.
 Triplite.—John, C. von; Kovár, F., &c.
 Tripoli powder.—Parker, E. W.
Trissopater.—Woodward, A. S.
Tritaxia.—Egger, J. G.
Triton & *Turcica*.—Nœtling, F.
Tritonium.—Clark, W. B., &c.
Trochactœon.—Cossmann, M.
Trochammina.—Grzybovski, J.
Trochita.—Chapman, F.
Trochoceras.—Grabau, A. W.; Oppenheim, P.
Trochocyathus.—Angelis d'Ossat, G. de; Clark, W. B., &c.; Vaughan, T. W.
Trochocystites.—Jäkel, O.
Trochonema.—Kindle, E. M.; Reed, F. R. C.
Trochopora.—Canu, F.
Trochoseris, *Turbinoseris*, & *Typhis*.—Oppenheim, P.
Trochosmilæa.—Angelis d'Ossat, G. de; Oppenheim, P.
Trochurus.—Lindström, G.
Trochus.—Cossmann, M.; Nœtling, F.; Oppenheim, P.; Reed, F. R. C.; Schnarrenberger, C.
 Trogkofel Shales.—Schellwien, E.
 Troilite.—Vogt, J. H. L.
 Tromb R. (Brazil).—Katzer, F.
 Trompia Valley (Lombardy).—Babu, —; Bettoni, A.; Campana, D. del.
 Tromsø (Norway).—Helland, A.; Tørnebohm, A. E.
 Trondhjem (Norway).—Friis, J. P.
 Troon (Ayrshire).—Smith, J.
Trophon.—Clark, W. B., &c.; Steinmann, G.
Tropidoleptus.—Kindle, E. M.
Tropisternus.—Scudder, S. H.
Tropites-limestone, Tyrol.—Geyer, G.
 Trouville (Normandy).—Bigot, A.
Truncatulina.—Clark, W. B., &c.; Egger, J. G.
 Tsé Chou (China).—Drake, N. F.
Tuba & *Tudicæa*.—Clark, W. B., &c.
 Tübingen (Württemberg).—Fraas, E.
Tubinolia & *Turbinaria*.—Vaughan, T. W.
Tubulipora.—Lisson, C. S.; Neviani, A.
 Tufa, calcareous, Burma.—La Touche, T. H. D.
 —, green, Vicenza.—Schubert, R. J.
 Tuffs, Gloucestershire.—Morgan, C. Ll., &c.
 —, Grola & Venetia.—Dal Lago, D.
 —, Hesse.—Schwantke, A.
 —, Lorne.—Kynaston, H.
 —, Sézanne.—Langeron, —.
 —, Westmoreland.—Rutley, F.
 Tundras, European prehistoric.—Geikie, J.
 Tungsten.—Pratt, J. H.; Weeks, F. B.
 Tunis (N. Africa).—Cooke, J. H.
 Tunnels, Alpine.—Anon., 39; Fellenberg, E. von, &c.; Fox, F.
 —, Colorado.—Lakes, A.
 —, Saxony.—Lakes, A.
 Tuolumne, Mt. (Cal.).—Hanks, H. G.
Turbinella.—Steinmann, G.
Turbinolia & *Turbonilla*.—Clark, W. B., &c.
Turbo.—Kindle, E. M.; Lorient, P. de.
 Turin (Piedmont).—Roccati, A.; Sacco, F.
 Turkey.—Naumann, E.; Penck, A.
Turritæpas.—Reed, F. R. C.
Turritella.—Behm, J.; Clark, W. B., &c.; Cossmann, M.; Imkeller, H.
 Nœtling, F.; Oppenheim, P.; Steinmann, G.; Tate, R.

- Tuscany (Italy).—Achiardi, G. d'; Bergeat, A.; Del-Zanna, P.; Fantapè, L.; Liebus, A.; Lotti, B.; Manasse, E.; Nelli, B.; Parona, C. F.; Pelloux, B.; Ristori, G.; Salle, E.; Trabucco, G.; Ugolini, R.
- Twyford (Berks).—White, H. J. O.
- Tylodictya*.—Hall, J., &c.
- Tylostoma*.—Schnarrenberger, C.
- Tympanotomus*.—Dollfus, G., &c.
- Types, American Museum of Natural History (N.Y.).—Whitfield, R. P., &c.
- , British Museum.—Seward, A. C.; Woodward, A. S.
- , Museum of Practical Geology.—Allen, H. A.
- , re-figuring.—Ehlert, D. P.
- , registration of.—Blake, J. F.
- , Woodwardian Museum.—Reed, F. R. C.
- Tyrol (Austria).—Blaas, J.; Diener, C.; Frech, F.; Huber, O. von; Ludwig, T., &c.; Muellner, J.; Romberg, J.; Schubert, R. J.; Trener, G. B.; Zambonini, F.; Zittel, K. A. von.
- Tyrone (Ireland).—Cole, G. A. J.
- ТЗВYТАЕВ, M. C.—Læwinson-Lessing, F.
- Ubahgsia*.—Canu, F.
- Ubaye (Basses-Alpes).—Zaccagna, D.
- Uintacyon*.—Wortman, J. L.
- Uintacrinus*.—Springer, F.
- Ulexite.—Buttgenbach, H.; Schulten, A. de.
- Ullswater (Westmoreland).—Oldham, R. D.
- Ulmus*.—Diller, J. S.
- Ulophyllia*.—Angelis d'Ossat, G. de.
- Ultrapiithecus*.—Ameghino, F.
- Umbria (Italy).—Issel, A.; Lotti, B.; Meli, R.; Taramelli, T.; Verri, A., &c.
- Uncinulus*.—Frech, F., &c.
- Underground temperature. *See* Temperature.
- Ungava Bay (Canada).—Bell, R.; Low, A. P.
- Ungl Valley (Hungary).—Gesell, A.
- Unicardium*.—Böhm, J.; Peach, B. N., &c.
- Unio*.—Fritsch, A., &c.; Grabau, A. W., &c.; Kennard, A. S., &c.; Leriche, M.; Logan, W. N.
- United States, Geological Survey.—Walcott, C. D., &c.
- , sea-ports & coalfields.—Parker, E. W.
- , *See also* Iron, Maps, Museums, Petroleum, &c.
- Unterwalden (Switzerland).—Hugi, E.
- Upheaval, land-. *See* Land.
- Uphill (Somerset).—Bolton, H., &c.
- Upway (Dorset).—Darwin, H.; Reid, C.
- Urago Mella (Brescia).—Cacciamali, G. B.
- Uralite.—Klement, C.; Wichmann, A.
- Urals (Russia).—Duparc, L., &c.; Johnsen, A.; Krasnopolski, A.; Morozovich, I.; Samoilov, J.; Suess, E.; Visotzki, N.
- Uranium.—Pratt, J. H.
- Uranocalcite.—Rinne, F.
- Uranophane.—Hoffmann, G. C.
- Urenchelys*.—Woodward, A. S.
- Urgonian.—Pâquier, V.
- Urnatopteris*.—Kidston, R.
- Urotheca*.—Crosby, W. O.
- Uruguay (S. Am.).—Church, G. E.
- Utah (U.S.A.).—Spurr, J. E.; Walcott, C. D., &c.
- Uvigerina*.—Egger, J. G.; Liebus, A.
- Vaal R. (S. Africa).—Penning, W. H.
- Vaberget (Sweden).—Hedström, H.
- Værdal (Trondhjem).—Friis, J. P.
- Vaginulina*.—Clark, W. B., &c.; Liebus, A.
- Valais (Switzerland).—Anon., 39; Baumhauer, H.; Bonard, A.; Brunner, H.; Fellenberg, E. von, &c.; Milch, L.; Preiswerk, H.; Solly, R. H.
- 'Valdivia' expedition.—Murray, Sir J., &c.
- Valence (Drôme).—Munier-Chalmas, —.
- Valenciennesia*.—Gorjanovič-Kramberger, K.
- Valentinite.—Pelloux, A.
- Valentinois Massif (Dauphiné).—Sayn, G.
- Valleys, Alpine.—Kilian, W.
- , buried glaciated.—Codrington, T.
- , Durham, &c.—Egglesstone, W. M.
- , hanging.—Davis, W. M.
- , origin of.—Purdue, A. H.
- , Sinai.—Hume, W. F.
- , sub-oceanic.—Hague, A.; Hudleston, W. H.
- , Swiss limestone-barred.—Lugeon, M.
- Valsesia (Piedmont).—Artini, E., &c.
- Valvata*.—Grabau, A. W., &c.; Logan, W. N.; Wuest, E.
- Valvulina*.—Egger, J. G.
- Vanadinite.—Weed, W. H.
- Vanadium.—Bodenbender, G.; Pratt, J. H.
- Vancouver (B.C.).—Anon., 24; Smith, A. E.; Watson, R. L.
- Var (France).—Guébard, A.; Lotti, B.
- Varangerfjord (Finmark).—Dal, A.
- Varanus*.—Vis, C. W. de.
- Variolina* & *Velenovskya*.—Fritsch, A., &c.
- Variolite-pebbles, Silesia.—Dathe, E.
- Vasseuria*.—Cossmann, M.
- Vaucluse (France).—Martel, E. A.
- Vaud (Switzerland).—Bieler, T.; Renévier, E., &c.
- Vefsen (Norland).—Rekstad, J.; Vogt, J. H. L.
- Vein-enrichment. *See* Ore.
- Veins.—Collins, G. E.; Comstock, T. B.; Emmons, S. F.; Ferguson, W.

- H.; Keyes, C. R.; Klement, C.; Lindgren, W.; Lohest, M.; Louis, H.; Rickard, T. A.; Van Hise, C. R.; Watson, S.; Weed, W. H.
- Velorita* & *Verticordia*.—Dall, W. H.
- Venericardia*.—Clark, W. B., &c.; Steinmann, G.
- Venetia (Italy).—Angelis d'Ossat, G. de; Dal Lago, D.; Omboni, G.; Piaz, G. dal; Schubert, R. J.; Squinabol, S.
- Venezuela (S. Am.).—Cortese, E.
- Venus*.—Dall, W. H.; Nøtling, F.; Oppenheim, P.; Steinmann, G.
- Vermes, Jurassic.—Logan, W. N.
- , Tertiary.—Oppenheim, P.
- Vermetus*.—Clark, W. B., &c.; Nøtling, F.
- Vermilion Co. (Ill.).—Case, E. C.
- Vermont (U.S.A.).—Dale, T. N., &c.
- Vern (Britanny).—Bézier, T.
- Verneuilina*.—Egger, J. G.; Grzybovski, J.
- Verrucocelia*.—Malfatti, P.
- Vertebraria*.—Arber, E. A. N.; Frech, F.
- Vesse spring (Allier).—Parmentier, F.
- Vestinautilus*.—Foord, A. H.
- Vesuvianite.—Moses, A. J.
- Vesuvius.—Becke, F.; Deecke, W.; Mateucci, R. V.; Sabatini, V.; Stefani, C. de; Waldo, C. A.
- Viatka Gov. (Russia).—Krotov, P.
- Vibracella*.—Canu, F.; Neviani, A.
- Vibraculina*.—Neviani, A.
- Viburnum*.—Knowlton, F. H.
- Vic-sur-Cère (Auvergne).—Puech, C.
- VICAIRE, E.—Lorieux, —, &c.
- Vicarya*.—Becker, G. F.
- Vicenza (Venetia).—Schubert, R. J.; Squinabol, S.
- Vichy (Allier).—Girard, C., &c.; Parmentier, F.
- Victoria (Austral.).—Browne, D. H.; Coghlan, T. A.; Dennant, J.; Dun, W. S.; Eissler, M.; Ferguson, W. H.; Gregory, J. W.; Hall, T. S., &c.; Hogg, E. G.; Hunter, S.; Kenyon, A. S.; Kitson, A. E.; Lidgey, E.; Liversidge, A.; Mactear, J.; Maplestone, C. M.; Meunier, St.; Penck, A.; Phipson, T. L.; Pritchard, G. B.; Rickard, T. A.; Walcott, R. H.
- Victorialand (Antarctic).—Bernacchi, L.
- Victorlemoineia*.—Ameghino, F.
- Vielsam (Liège).—Lohest, M., &c.
- Vienna (Lr. Austria).—Abel, O.; Fuchs, T.; Knett, J.
- Vierstöck (Hesse).—Chelius, C.
- Vierzon (Cher).—Grossouvre, A. de.
- Villaresia*.—Deane, H.
- Villerville (Normandy).—Bigot, A.
- Vilvorde (Belgium).—Mourlon, M., &c.
- Virginia (U.S.A.).—Fleming, R.; Walcott, C. D., &c.; Weed, W. H.; Woodworth, J. B.
- , W. (U.S.A.).—Walcott, C. D., &c.; White, I. C.
- Vitis*.—Deane, H.
- Vitrina*.—Wuest, E.
- Vittalicella*.—Maplestone, C. M.
- Vitulina*.—Kindle, E. M.
- Viverravus* & *Vulpavus*.—Wortman, J. L.
- Vizzini (Sicily).—Rosali, A.
- Vlasč, Mt. (Servia).—Pavlovič, L.
- Vobster (Somerset).—McMurtrie, J.
- Voghere (Lombardy).—Baratta, M.
- Vogltle.—Rinne, F.
- Vogtland (Saxony).—Credner, H.; Zimmermann, E.
- Vola*.—Imkeller, H.
- Volcanic agglomerates.—Nolan, J.
- cones, tuff.—Bishop, S. E.
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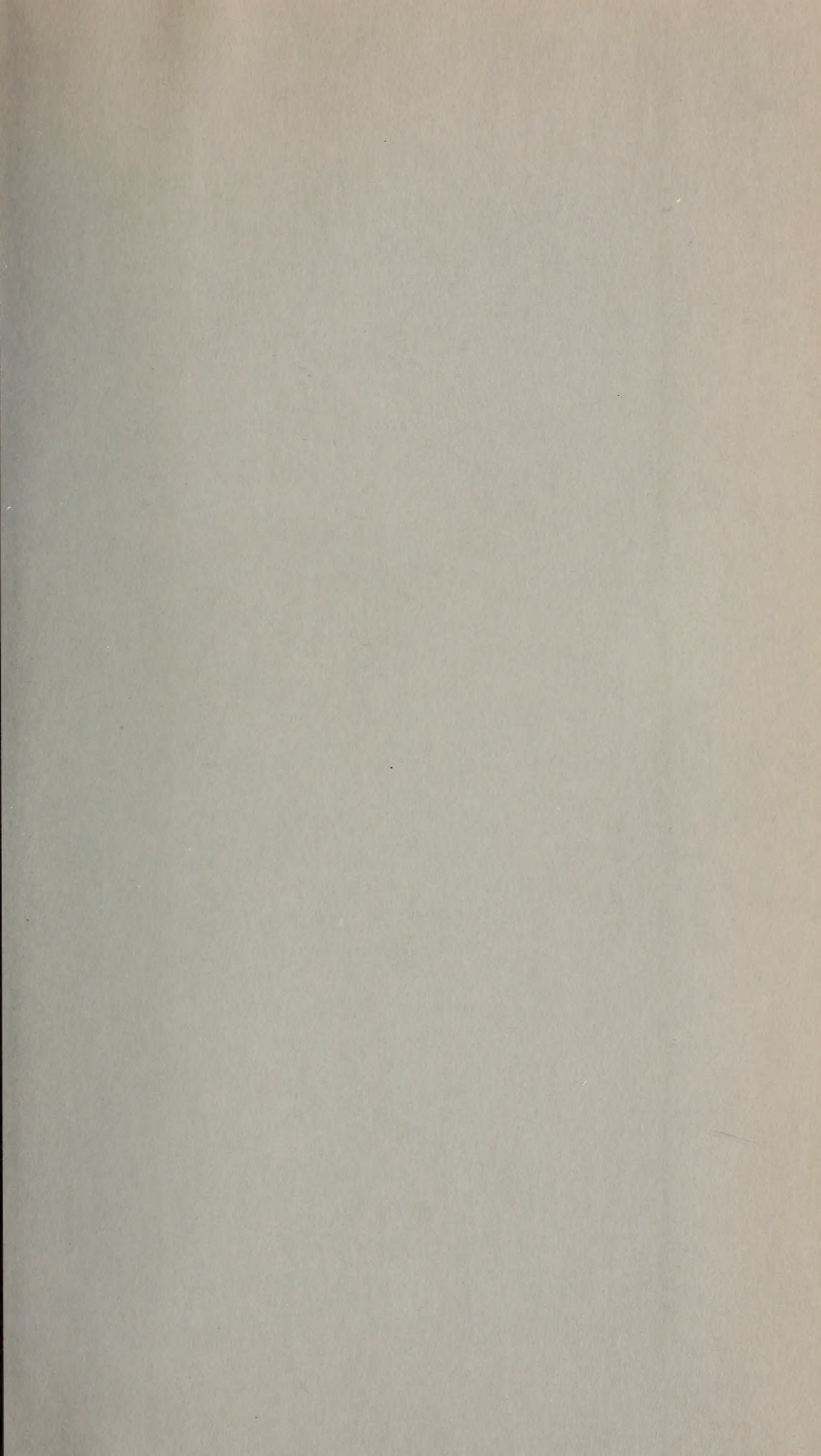
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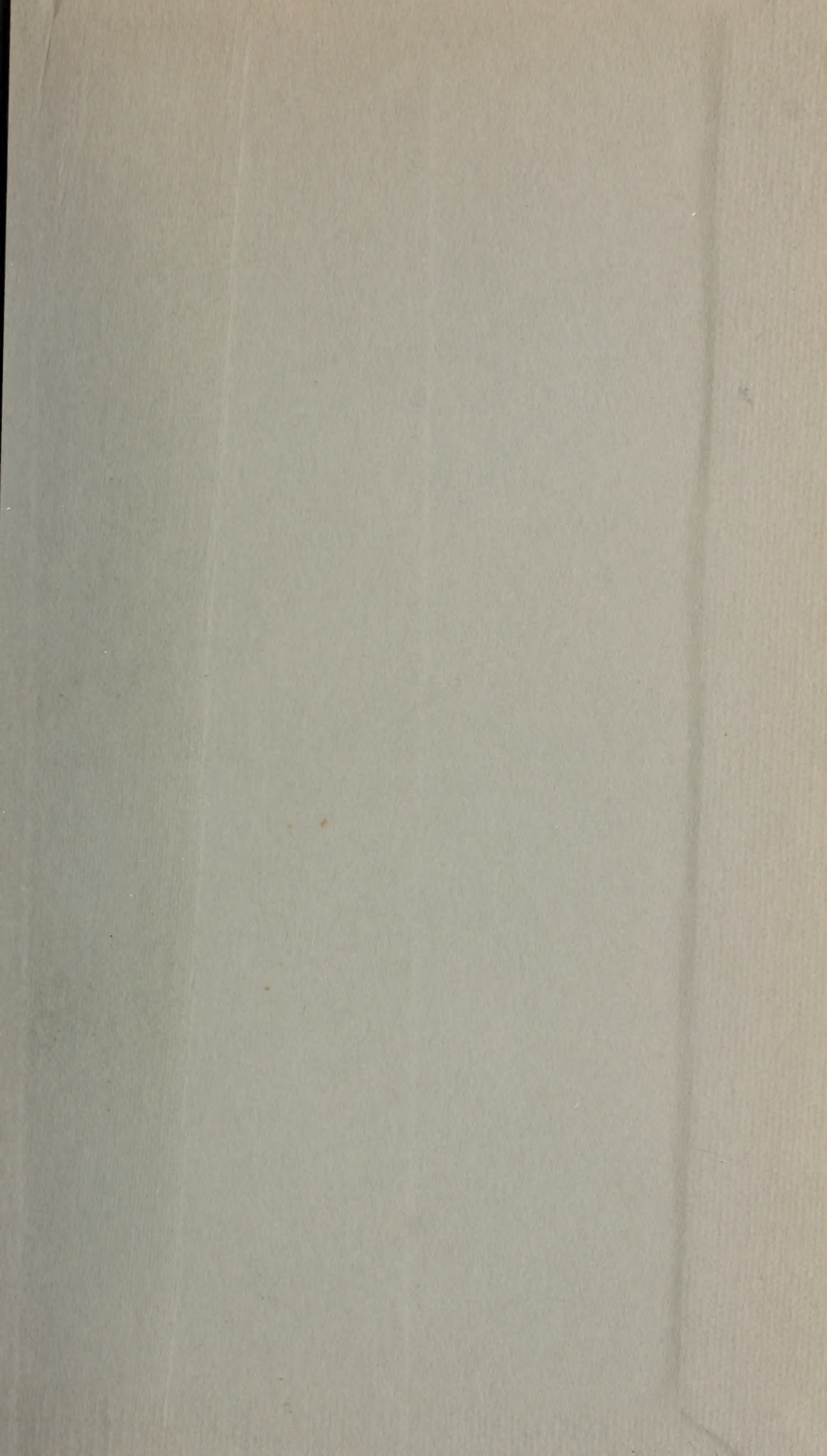
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